Pinson Valley PA
Ref. 15

[redacted]

ABC COKE
A DIVISION OF
DRUMMOND COMPANY, INC.

September 24, 2013

VIA Certified Mail Return Receipt Requested #70111570000146367483

Alabama Department of Environmental Management
Industrial Water Division
P.O. Box 301463
Montgomery, Alabama 36130-1463

RECEIVED
OCT 01 2013
IND/MUN BRANCH

Attn: Mr. Alexander P. Chavers
Industrial Water Division

Re: Renewal Request for NPDES Permit AL0003417
ABC Coke Division of Drummond Company, Inc..

Dear Mr. Chavers:

This Letter accompanies the Application for Renewal of the NPDES Permit AL0003417 ABC Coke Division of Drummond Co. Inc..

We are not requesting any changes from our present Permit as Modified except as to frequency of sampling.

As can be seen from our compliance history and stability of operation, a decrease to Quarterly Sampling is requested.

We are enclosing a check (No. 00219947) for $14,990.00 for the Application Fee.

Sincerely,

W. M. Poling
Manager of Environmental & Engineering
ABC Coke Division of Drummond Co., Inc.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT APPLICATION SUPPLEMENTARY INFORMATION

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION – INDUSTRIAL / MINING PERMIT SECTION
POST OFFICE BOX 301463
MONTGOMERY, ALABAMA 36130-1463

INSTRUCTIONS: **APPLICATIONS SHOULD BE TYPED OR PRINTED IN INK AND SUBMITTED TO THE DEPARTMENT IN DUPLICATE. IF INSUFFICIENT SPACE IS AVAILABLE TO ADDRESS ANY ITEM, PLEASE CONTINUE ON AN ATTACHED SHEET OF PAPER. PLEASE MARK N/A IN THE APPROPRIATE BOX WHEN AN ITEM IS NON-APPLICABLE TO THE APPLICANT.**

PURPOSE OF THIS APPLICATION

___ INITIAL PERMIT APPLICATION FOR NEW FACILITY
___ INITIAL PERMIT APPLICATION FOR EXISTING FACILITY
___ MODIFICATION OF EXISTING PERMIT
✓ REISSUANCE OF EXISTING PERMIT
___ REVOCATION & REISSUANCE OF EXISTING PERMIT

1. Facility Name: ABC Coke Division

   a. Operator Name: ABC Coke Division

   b. Is the operator identified in 1.a., the owner of the facility? Yes ✓ No ___
   If no, provide the name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.

2. NPDES Permit Number AL 0 0 0 3 4 1 7

3. SID Permit Number (if applicable): IU ___ ___ - ___ ___ - ___ ___ ___ ___ ___

4. NPDES General Permit Number (if applicable) ALG ___ ___ ___ ___ ___ ___ ___

5. Facility Physical Location: (Attach a map with location marked; street, route no. or other specific identifier)

   Street: 900 Huntsville Ave

   City: Tarrant County: Jefferson State: AL Zip: 35217

   Facility (Front Gate) Latitude: 33.576762 Longitude: -86.782288

6. Facility Mailing Address (Street or Post Office Box): PO Box 10246

   City: Birmingham State: AL Zip: 35202

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7. Responsible Official (as described on page 13 of this application):

Name and Title: Richard Owens, President

Address: PO Box 10246

City: Birmingham State: AL Zip: 35202

Phone Number: 205/849-1300

EMAIL Address:

8. Designated Facility Contact:

Name and Title: Mr. Mark Poling, Manager of Engineering - Environmental Control

Phone Number: 205-849-1300

EMAIL Address:

9. Designated Discharge Monitoring Report Contact:

Name and Title: Mr. Mark Poling, Manager of Engineering - Environmental Control

Phone Number: 205-849-1300

EMAIL Address:

10. Type of Business Entity:

[✓] Corporation [ ] General Partnership [ ] Limited Partnership

[ ] Sole Proprietorship [ ] Other (Please Specify) _____

11. Complete this section if the Applicant's business entity is a Corporation

a) Location of Incorporation:

Address: 530 Beacon Parkway

City: Birmingham County: Jefferson State: AL Zip: 35209

b) Parent Corporation of Applicant:

Name: Drummond Company, Inc.

Address: 530 Beacon Parkway

City: Birmingham State: AL Zip: 35209

c) Subsidiary Corporation(s) of Applicant:

Name: N/A

Address: _____

City: _____ State: _____ Zip: _____

d) Corporate Officers:

Name: Richard Ownes, President

Address: PO Box 10246

City: Birmingham State: AL Zip: 35202

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

e) Agent designated by the corporation for purposes of service:

Name: N/A

Address: _____

City: _____ State: _____ Zip: _____

12. If the Applicant's business entity is a Partnership, please list the general partners.

Name: N/A

Address: _____

City: _____ State: _____ Zip: _____

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

13. If the Applicant's business entity is a Proprietorship, please enter the proprietor's information.

Name: NA

Address:

City: State: Zip:

14. Permit numbers for Applicant's previously issued NPDES Permits and identification of any other State of Alabama Environmental Permits presently held by the Applicant, its parent corporation, or subsidiary corporations within the State of Alabama:

Permit Name	Permit Number	Held By
NPDES	AL00003417	ABC Coke Division
Air Permits continued on attached page		

15. Identify all Administrative Complaints, Notices of Violation, Directives, Administrative Orders, or Litigation concerning water pollution, if any, against the Applicant, its parent corporation or subsidiary corporations within the State of Alabama within the past five years (attach additional sheets if necessary)

Facility Name	Permit Number	Type of Action	Date of Action

SECTION B – BUSINESS ACTIVITY

1. Indicate applicable Standard Industrial Classification (SIC) Codes for all processes (If more than one applies, list in order of importance:

a 3312—Blast Furnaces and Steel Mill

b.

c.

d.

e.

14. **Continuation - Permit Numbers for Applicant's previously issued NPDES permits and identification of any other State of Alabama Environmental Permits presently held by the Applicant, its parent corporation, or subsidiary corporations within the State of Alabama.**

ABC Coke Division Air Permits
Issued by Jefferson Co.
(Current Title V Air Permit - 4-07-0001-02)

Permit Number	Source
4-07-0001-2701	Boiler No. 9
4-07-0001-2704	Boiler No. 7
4-07-0001-2705	Boiler No. 8
4-07-0001-8601	Pushing - Wilputte
4-07-0001-8602	Pushing - Beckers 5
4-07-0001-8603	Pushing - Beckers 6
4-07-0001-8801	Charging - Wilputte
4-07-0001-8805	Charging - Beckers 5
4-07-0001-8806	Charging - Beckers 6
4-07-0001-8504	Door Emissions - Wilputte
4-07-0001-8505	Door Emissions - Beckers 5
4-07-0001-8506	Door Emissions - Beckers 6
4-07-0001-8507	Topside offtakes & changing hole lids - Wilputte
4-07-0001-8508	Topside offtakes & changing hole lids - Beckers 5
4-07-0001-8703	Naphthalene Skimming Sump w/ Hood

2. If your facility conducts or will be conducting any of the processes listed below (regardless of whether they generate wastewater, waste sludge, or hazardous waste), place a check beside the category of business activity (check all that apply):

Industrial Categories

[ ] Aluminum Forming
[ ] Asbestos Manufacturing
[ ] Battery Manufacturing
[ ] Can Making
[ ] Canned and Preserved Fruit and Vegetables
[ ] Canned and Preserved Seafood
[ ] Cement Manufacturing
[ ] Centralized Waste Treatment
[ ] Carbon Black
[ ] Coal Mining
[ ] Coil Coating
[ ] Copper Forming
[ ] Electric and Electronic Components Manufacturing
[ ] Electroplating
[ ] Explosives Manufacturing
[ ] Feedlots
[ ] Ferroalloy Manufacturing
[ ] Fertilizer Manufacturing
[ ] Foundries (Metal Molding and Casting)
[ ] Glass Manufacturing
[ ] Grain Mills
[ ] Gum and Wood Chemicals Manufacturing
[ ] Inorganic Chemicals
[ ] Iron and Steel
[ ] Leather Tanning and Finishing
[ ] Metal Finishing
[ ] Meat Products
[ ] Metal Molding and Casting
[ ] Metal Products
[ ] Nonferrous Metals Forming
[ ] Nonferrous Metals Manufacturing
[ ] Oil and Gas Extraction
[ ] Organic Chemicals Manufacturing
[ ] Paint and Ink Formulating
[ ] Paving and Roofing Manufacturing
[ ] Pesticides Manufacturing
[ ] Petroleum Refining
[ ] Phosphate Manufacturing
[ ] Photographic
[ ] Pharmaceutical
[ ] Plastic & Synthetic Materials
[ ] Plastics Processing Manufacturing
[ ] Porcelain Enamel
[ ] Pulp, Paper, and Fiberboard Manufacturing
[ ] Rubber
[ ] Soap and Detergent Manufacturing
[ ] Steam and Electric
[ ] Sugar Processing
[ ] Textile Mills
[ ] Timber Products
[ ] Transportation Equipment Cleaning
[ ] Waste Combustion
[ ] Other (specify)_____

A facility with processes inclusive in these business areas may be covered by Environmental Protection (EPA) categorical standards. These facilities are termed "categorical users" and should skip to question 2 of Section C.

3. Give a brief description of all operations at this facility including primary products or services (attach additional sheets if necessary):

The ABC Coke facility in Tarrant, AL coverts coal to coke as a primary product for the iron and steel industries. The coal is transformed into coke with coking ovens. By-products recovered as secondary products include coke tar, ammonia sulfate, and BTX (benzene, toluene, and xylene).

SECTION C – WASTEWATER DISCHARGE INFORMATION

Facilities that checked activities in question 2 of Section B and are considered Categorical Industrial Users should skip to question 2 of this section.

1. **For Non-Categorical Users Only**: Provide wastewater flows for each of the processes or proposed processes. Using the process flow schematic (Figure 1, pg 14), enter the description that corresponds to each process. [New facilities should provide estimates for each discharge.]

Process Description	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow	Discharge Type (batch, continuous, intermittent)
By-products/Ammonia Stills	282,490	403,910	Continuous
Cooling Tower Blowdown	38,016	38,016	Continuous
(see attached)			

If batch discharge occurs or will occur, indicate: [New facilities may estimate.]

a. Number of batch discharges: _____ per day

b. Average discharge per batch: _____ (GPD)

c. Time of batch discharges _____ at _____
(days of week) (hours of day)

d. Flow rate: _____ gallons/minute

e. Percent of total discharge: _____

Non-Process Discharges (e.g. non-contact cooling water)	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow

2. **Complete this Section only if you are subject to Categorical Standards and plan to directly discharge the associated wastewater to a water of the State.** If Categorical wastewater is discharged exclusively via an indirect discharge to a public or privately-owned treatment works, check "Yes" in the appropriate space below and proceed directly to part 2.c .

[ ] Yes

For Categorical Users: Provide the wastewater discharge flows or production (whichever is applicable by the effluent guidelines) for each of your processes or proposed processes. Using the process flow schematic (Figure 1, pg 14), enter the description that corresponds to each process. [New facilities should provide estimates for each discharge.]

1. **(Continued)For Non-Categorical Users Only**: Provide wastewater flows for each of the processes. Using the process flow schematic (Figure 1, pg 14), enter the description that corresponds to each process. [New facilities should provide estimates for each discharge.]

Process Description	Last 12 Months Highest Flow Year of Last 5 Years (gals/day) Highest Month Avg.	Discharge Type (gals/day) FlowMonthly Avg. Flow	(batch, cont., none)
Cooling WaterBlowdown	38,000	38,000	Continuous
Coke Truck Loading Quench	5, 000	5,000	Continuous
Coal Blending Wash Water	7,200	7,200	Continuous

If batch discharge occurs or will occur, indicate: [New facilities may estimate.]

a. Number of batch discharges: _____ per day

b. Average discharge per batch: _____ (GPD)

c. Time of batch discharges _____ at _____
(days of week) (hours of day)

d. Flow rate: _____ gallons/minute

e. Percent of total discharge: _____

Answer questions 2, 3, and 4 only if you are subject to Categorical Standards and plan to directly discharge the associated wastewater directly to a water of the State. If Categorical wastewater is discharged exclusively via an indirect discharge to a public or privately-owned treatment works, check "Yes" in the appropriate space below andproceeddirectly to part 2.c .

[ ] Yes

2a.

Regulated Process	Applicable Category	Applicable Subpart	Type of Discharge Flow (batch, continuous, intermittent)

2b.

Process Description	Last 12 Months (gals/day) Highest Month Average*	Highest Flow Year of Last 5 (gals/day) Monthly Average*	Discharge Type (batch, continuous, intermittent)

*** Reported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc.**

If batch discharge occurs or will occur, indicate: [New facilities may estimate.]

a. Number of batch discharges: _____ per day

b. Average discharge per batch: _____ (GPD)

c. Time of batch discharges _____ (days of week) at _____ (hours of day)

d. Flow rate: _____ gallons/minute

Percent of total discharge: _____

2c.

Non categorical Process Description	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow	Discharge Type (batch, continuous, intermittent)

If batch discharge occurs or will occur, indicate: [New facilities may estimate.]

a. Number of batch discharges: _____ per day

b. Average discharge per batch: _____ (GPD)

c. Time of batch discharges _____ (days of week) at _____ (hours of day)

d. Flow rate: _____ gallons/minute

Percent of total discharge: _____

2d.

Non-Process Discharges (e.g. non-contact cooling water)	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow

All Applicants must complete Questions 3 – 5.

3. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

Flow Metering	Yes	✔	No		N/A	
Sampling Equipment	Yes	✔	No		N/A	

If so, please indicate the present or future location of this equipment on the sewer schematic and describe the equipment below:

4. Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics? Yes [ ] No [✔] (If no, skip Question 5)

Briefly describe these changes and their anticipated effects on the wastewater volume and characteristics:

5. List the trade name and chemical composition of all biocides and corrosion inhibitors used:

Trade Name	Chemical Composition
N/A	

For each biocide and/or corrosion inhibitor used, please include the following information:

(1) 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach,
(2) quantities to be used,
(3) frequencies of use,
(4) proposed discharge concentrations, and
(5) EPA registration number, if applicable

SECTION D – WATER SUPPLY

Water Sources (check as many as are applicable):

[ ] Private Well
[✓] Municipal Water Utility (Specify City):
[ ] Surface Water
[ ] Other (Specify):

IF MORE THAN ONE WELL OR SURFACE INTAKE, PROVIDE DATA FOR EACH ON AN ATTACHMENT

City: 0.5 *MGD Well: _____ *MGD Well Depth: ____ Ft. Latitude: _____ Longitude: _____

Surface Intake Volume: _____*MGD Intake Elevation in Relation to Bottom _____Ft.

Intake Elevation: _____ Ft. Latitude: _____ Longitude: _____

Name of Surface Water Source: _____

*** MGD – Million Gallons per Day**

Cooling Water Intake Structure Information

Complete questions 1 and 2 if your water supply is provided by an outside source and not by an onsite water intake structure? (e.g., another industry, municipality, etc...)

1. Does the provider of your source water operate a surface water intake? Yes [✓] No [ ]
   (If yes, continue, if no, go to Section E.)

   a) Name of Provider Birmingham Water Works b)Location of Provider Birmingham, AL

   c) Latitude: _____ Longitude: _____

2. Is the provider a public water system (defined as a system which provides water to the public for human consumption or which provides only treated water, not raw water)? Yes [ ] No [✓]
   (If yes, go to Section E, if no, continue.)

Only to be completed if you have a cooling water intake structure or the provider of your water supply uses an intake structure and does not treat the raw water.

3. Is any water withdrawn from the source water used for cooling? Yes [ ] No [✓]

4. Using the average monthly measurements over any 12-month period, approximately what percentage of water withdrawn is used exclusively for cooling purposes? _____%

5. Does the cooling water consist of treated effluent that would otherwise be discharged? Yes [ ] No [ ]
   (If yes, go to Section E, if no, complete questions 6 – 17.)

6. Is the cooling water used in a once-through or closed cycle cooling system? Yes [ ] No [ ]

7. When was the intake installed?
   (Please provide dates for all major construction/installation of intake components including screens)

8. What is the maximum intake volume?
   (maximum pumping capacity in gallons per day)

9. What is the average intake volume?
   (average intake pump rate in gallons per day average in any 30-day period)

10. How is the intake operated? (e.g., continuously, intermittently, batch)

11. What is the mesh size of the screen on your intake?

12. What is the intake screen flow-through area?

13. What is the through screen design intake flow velocity? _____ft/sec

14. What is the mechanism for cleaning the screen? (e.g., does it rotate for cleaning)

15. Do you have any additional fish detraction technology on your intake? Yes [ ] No [ ]

16. Have there been any studies to determine the impact of the intake on aquatic organisms? Yes [ ] No [ ] (If yes please provide.)

17. Attach a site map showing the location of the water intake in relation to the facility, shoreline, water depth, etc.

SECTION E – WASTE STORAGE AND DISPOSAL INFORMATION

Provide a description of the location of all sites involved in the storage of solids or liquids that could be accidentally discharged to a water of the state, either directly or indirectly via such avenues as storm water drainage, municipal wastewater systems, etc., which are located at the facility for which the NPDES application is being made. Where possible, the location should be noted on a map and included with this application:

Description of Waste	Description of Storage Location
See attached page	

Provide a description of the location of the ultimate disposal sites of solid or liquid waste by-products (such as sludges) from any wastewater treatment system located at the facility.

Description of Waste	Quantity (lbs/day)	Disposal Method*
Waste Sludge - 500 gal/day	4,000	Sludge is mixed with coal and recycled in coke production.

***Indicate which wastes identified above are disposed of at an off-site treatment facility and which are disposed of on-site. If any wastes are sent to an off-site centralized waste treatment facility, identify the waste and the facility.**

Section E **Continuation, National Pollutant Discharge Elimination System Supplementary Permit Application**

Material	Description of Product Storage Location
BTX	This substance is stored in two (2) above ground storage tanks (AST) which are located on the west central portion of the facility.
Flushing Liquor	This substance is stored in one (1) AST which is located in the southern portion of the production area.
Ammonia Liquor	This substance is stored in one (1) AST which is located in the southern portion of the production area.
Sulfuric Acid	This substance is stored in two (2) ASTs which are located in the eastern side of the by-products building.
Sodium hydroxide	This substance is stored in two (2) ASTs which are located next to the BTX storage area.
Tar	This substance is stored in two (2) ASTs which are located in the southern portion of the production area.
Wash Oil	This substance is stored in two (2) ASTs which are located next to the BTX storage area.
Diesel fuel	This substance is stored in three (3) ASTs which are located around the facility, which are all in containment.
Gasoline	This substance is stored in one (1) AST which is located on the Northern portion of the facility next to the parts warehouse/storeroom.

Note: All storage tanks listed above are in containment.

SECTION F – COASTAL ZONE INFORMATION

Is the discharge(s) located within 10-foot elevation of Mobile or Baldwin County?

Yes [ ] No [✓] If yes, then complete items A through M below:

	YES	NO
A. Does the project require new construction?	☐	☐
B. Will the project be a source of new air emissions?	☐	☐
C. Does the project involve dredging and/or filling?	☐	☐
Has the Corps of Engineers (COE) permit been received?	☐	☐
Corps Project Number _____		
D. Does the project involve wetlands and/or submersed grassbeds?	☐	☐
E. Are oyster reefs located near the project site? (Include a map showing project and discharge location with respect to oyster reefs)	☐	☐
F. Does the project involve the siting, construction and operation of an energy facility as defined in ADEM Admin. Code R. 335-8-1-.02(bb)?	☐	☐
G. Does the project involve shoreline erosion mitigation?	☐	☐
H. Does the project involve construction on beaches and dunes?	☐	☐
I. Will the project interfere with public access to coastal waters?	☐	☐
J. Does the project lie within the 100-year floodplain?	☐	☐
K. Does the project involve the registration, sale, use, or application of pesticides?	☐	☐
L. Does the project propose to construct a new well or alter an existing well to pump more than 50 GPD?	☐	☐
M. Has the applicable permit been obtained?	☐	☐

SECTION G – ANTI-DEGRADATION EVALUATION

In accordance with 40 CFR 131.12 and the Alabama Department of Environmental Management Administrative Code, Section 335-6-10-.04 for antidegradation, the following information must be provided, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity. If further information is required to make this demonstration, attach additional sheets to the application.

1. Is this a new or increased discharge that began after April 3, 1991? Yes [ ] No [✓]
   If yes, complete question 2 below. If no, go to Section H.

2. Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in question 1? Yes [ ] No [ ]

   If yes, do not complete this section.

If no, and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete questions A through F below and ADEM forms 311 and 313 (attached). Form 313 must be provided for each alternative considered technically viable.

Information required for new or increased discharges to high quality waters:

A. What environmental or public health problem will the discharger be correcting?

B. How much will the discharger be increasing employment (at its existing facility or as the result of locating a new facility)?

C. How much reduction in employment will the discharger be avoiding?

D. How much additional state or local taxes will the discharger be paying?

E. What public service to the community will the discharger be providing?

F. What economic or social benefit will the discharger be providing to the community?

SECTION H – EPA Application Forms

All Applicants must submit EPA permit application forms. More than one application form may be required from a facility depending on the number and types of discharges or outfalls found there. The EPA application forms are found on the Department's website at http://www.adem.state.al.us/. The EPA application forms must be submitted in duplicate as follows:

1. All applicants must submit Form 1.
2. Applicants for existing industrial facilities (including manufacturing facilities, commercial facilities, mining activities, and silvicultural activities) which discharge process wastewater must submit Form 2C.
3. Applicants for new industrial facilities which propose to discharge process wastewater must submit Form 2D.
4. Applicants for new and existing industrial facilities which discharge only non-process wastewater (i.e., non-contact cooling water and/or sanitary wastewater) must submit Form 2E.
5. Applicants for new and existing facilities whose discharge is composed entirely of storm water associated with industrial activity must submit Form 2F, unless exempted by § 122.26(c)(1)(ii). If the discharge is composed of storm water and non-storm water, the applicant must also submit Forms 2C, 2D, and/or 2E, as appropriate (in addition to Form 2F).

SECTION I – ENGINEERING REPORT/BMP PLAN REQUIREMENTS
See ADEM 335-6-6-.08(i) & (j)

SECTION J– RECEIVING WATERS

Receiving Water(s)	303(d) Segment? (Y / N)	Included in TMDL?* (Y / N)
FIVE MILE CREEK	Y	N

*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:
(1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.);
(2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available),
(3) Requested interim limitations, if applicable,
(4) Date of final compliance with the TMDL limitations; and,
(5) Any other additional information available to support requested compliance schedule.

SECTION K – APPLICATION CERTIFICATION

THE INFORMATION CONTAINED IN THIS FORM MUST BE CERTIFIED BY A RESPONSIBLE OFFICIAL AS DEFINED IN ADEM ADMINISTRATIVE RULE 335-6-6-.09 "SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS" (SEE BELOW).

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

"I FURTHER CERTIFY UNDER PENALTY OF LAW THAT ALL ANALYSES REPORTED AS LESS THAN DETECTABLE IN THIS APPLICATION OR ATTACHMENTS THERETO WERE PERFORMED USING THE EPA APPROVED TEST METHOD HAVING THE LOWEST DETECTION LIMIT FOR THE SUBSTANCE TESTED."

SIGNATURE OF RESPONSIBLE OFFICIAL: _____ DATE SIGNED: 9/25/13

(TYPE OR PRINT)
NAME OF RESPONSIBLE OFFICIAL: MR. RICHARD OWENS

TITLE OF RESPONSIBLE OFFICIAL: PRESIDENT

MAILING ADDRESS: P O BOX 10246

CITY, STATE, ZIP: Birmingham, AL, 35202 PHONE: (205) 849-1300

335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.

(1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
(a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
(b) In the case of a partnership, by a general partner;
(c) In the case of a sole proprietorship, by the proprietor; or
(d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I EPA I D NUMBER

5		T/A	C
F			D
1 2	13	14	15

LABEL ITEMS	
I.	EPA I D NUMBER
III	FACILITY NAME
V.	FACILITY MAILING ADDRESS
VI.	FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer **"yes"** to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X	
	16	17	18
B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)		X	
	19	20	21
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	X		
	22	23	24
D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
	25	26	27
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)		X	
	28	29	30
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
	31	32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
	34	35	36
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
	37	38	39
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
	40	41	42
J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	
	43	44	45

III. NAME OF FACILITY

C		
1	SKIP	A B C COKE DIVISION
15	16 - 29	30

IV FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
C 2 M A R K P O L I N G MGR. ENG. & ENVIR CONTROL	(205) 849-1300
15 16 45	46 48 49 51 52 55

V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX

C 3 P O BOX 10246

15 16 45

B. CITY OR TOWN	C. STATE	D. ZIP CODE
C 4 BIRMINGHAM	AL	35202
15 16 40	41 42	47 51

VI FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

C 5 RAILROAD AVENUE

15 16 45

B. COUNTY NAME

JEFFERSON

46 70

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
C 6 TARRANT	AL	35217	
15 16 40	41 42	47 51	52 54

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
3312 (specify) FOUNDRY COKE	NA (specify) NA
C. THIRD	**D. FOURTH**
NA (specify) NA	NA (specify) NA

VIII OPERATOR INFORMATION

A. NAME	B. Is the name listed in Item VIII-A also the owner?
ABC COKE DIVISION	☑ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other," specify.)

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC (other than federal or state)
O = OTHER (specify)

P (specify)

D. PHONE (area code & no.): A (205) 849-1300

E. STREET OR P.O. BOX: PO BOX 10246

F. CITY OR TOWN	G. STATE	H. ZIP CODE	IX. INDIAN LAND
BIRMINGHAM	AL	35202	Is the facility located on Indian lands? ☐ YES ☑ NO

X EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)
N AL00003417	P NUMEROUS
B. UIC (Underground Injection of Fluids)	**E. OTHER (specify)**
U NA	NA (specify)
C. RCRA (Hazardous Wastes)	**E. OTHER (specify)**
R NA	NA (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII NATURE OF BUSINESS (provide a brief description)

The ABC Coke Division Tarrant Facility converts coal into foundry coke for use in the iron and steel industries. During the production process crude coal tar, light oil and ammonium sulfate are produced as by-products.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Richard Owens President	Richard L. Owens	9/26/13

COMMENTS FOR OFFICIAL USE ONLY

C

Please print or type in the unshaded areas only.

EPA I.D NUMBER (*copy from Item 1 of Form 1*)

Form Approved.
OMB No. 2040-0086
Approval expires 3-31-98.

FORM 2C NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water

A. OUTFALL NUMBER (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1. DEG	2. MIN	3. SEC	1. DEG	2. MIN.	3. SEC	
DSN001	33.00	35.00	11.00	-86.00	46.00	53.00	FIVE MILE CREEK

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (*list*)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	Treated process wastewater and	0.4MGD	Ammonia stripping, activated sludge, aerated	1-A	3-A
	stormwater runoff from by-product		lagoons, anerobic treatment, pre-aeration,	3-B	3-C
	operation and industrial makeup		stabilization ponds, clarifiers, and belt press	3-E	5-C
	contro. water				

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES (*complete the following table*) ☑ NO (*go to Section III*)

1 OUTFALL NUMBER (*list*)	2 OPERATION(S) CONTRIBUTING FLOW (*list*)	3 FREQUENCY a DAYS PER WEEK (*specify average*)	3 FREQUENCY b MONTHS PER YEAR (*specify average*)	4 FLOW a FLOW RATE (*in mgd*) 1 LONG TERM AVERAGE	4 FLOW a FLOW RATE (*in mgd*) 2 MAXIMUM DAILY	4 FLOW B TOTAL VOLUME (*specify with units*) 1 LONG TERM AVERAGE	4 FLOW B TOTAL VOLUME (*specify with units*) 2 MAXIMUM DAILY	C. DURATION (*in days*)

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES (*complete Item III-B*) ☑ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☑ YES (*complete Item III-C*) ☐ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls

1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY	1. AVERAGE DAILY PRODUCTION b. UNITS OF MEASURE	1. AVERAGE DAILY PRODUCTION c. OPERATION, PRODUCT, MATERIAL, ETC (*specify*)	2. AFFECTED OUTFALLS (*list outfall numbers*)
2093	tons	COKE	001

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (*complete the following table*) ☑ NO (*go to Item IV-B*)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2 AFFECTED OUTFALLS a NO	2 AFFECTED OUTFALLS b SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a REQUIRED	4. FINAL COMPLIANCE DATE b PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C. See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
NA			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (*list all such pollutants below*) ☑ NO (*go to Item VI-B*)

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☑ YES (*identify the test(s) and describe their purposes below*) ☐ NO (*go to Section VIII*)

Chronic toxicity testing is performed on effluent from outfall DSN 001 on a monthly basis as per the facility's NPDES permit.

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ NO (*go to Section IX*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
LRS, Inc	163 5th Street, Ashville, AL 35953	205/683-6731	Color, COD, TOC, Metals, SVOCs, bis(chloromethyl) ether, Total Organic N, VOCs

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
Richard Owens, President	(205) 849-1300
C. SIGNATURE	D. DATE SIGNED
Richard R Owens	9/27/13

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS

EPA I D. NUMBER (*copy from Item 1 of Form 1*)

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO. DSN001

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details

1. POLLUTANT	2 EFFLUENT a MAXIMUM DAILY VALUE (1) CONCENTRATION	a MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c LONG TERM AVRG VALUE (*if available*) (1) CONCENTRATION	c LONG TERM AVRG VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a CONCENTRATION	3. UNITS b MASS	4 INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4 INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4 INTAKE b. NO OF ANALYSES
a Biochemical Oxygen Demand (*BOD*)	10							mg/L				
b. Chemical Oxygen Demand (*COD*)	63.3							mg/L				
c Total Organic Carbon (*TOC*)	14.4							mg/L				1
d Total Suspended Solids (*TSS*)		221		70.5		18.7	573		ppd			
e. Ammonia (*as N*)		89.8		59.5		3.79	573		ppd			
f. Flow	VALUE 0.408		VALUE 0.282		VALUE 0.268		365		MGD	VALUE		
g Temperature (*winter*)	VALUE 22.2		VALUE		VALUE			°C		VALUE		
h Temperature (*summer*)	VALUE 26.7		VALUE		VALUE			°C		VALUE		
i pH	MINIMUM 6.7	MAXIMUM 8.2	MINIMUM 7.5	MAXIMUM 8.2			365	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements

1 POLLUTANT AND CAS NO. (*if available*)	2 MARK "X" a BELIEVED PRESENT	2 MARK "X" b BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c LONG TERM AVRG. VALUE (*if available*) (2) MASS	d NO OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b Chlorine, Total Residual		X												
c Color		X												
d Fecal Coliform		X												
e Fluoride (16984-48-8)		X												
f Nitrate-Nitrite (as *N*)		X												

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO (if available)	2 MARK "X"		3 EFFLUENT							4 UNITS		5 INTAKE (optional)		
	a BELIEVED PRESENT	b BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c LONG TERM AVRG. VALUE (if available)		d NO OF ANALYSES	a CONCENTRATION	b. MASS	a LONG TERM AVERAGE VALUE		b NO OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X			1.41						mg/L				1
h. Oil and Grease	X													
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO_4) (14808-79-8)		X												
l. Sulfide (as S)		X												
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)	X		1.870							mg/L				
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)	X		0.0318							mg/L				
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
	DSN001

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			< 0.005							mg/L				1
2M. Arsenic, Total (7440-38-2)	X			< 0.005							mg/L				1
3M. Beryllium, Total (7440-41-7)	X			< 0.001							mg/L				1
4M. Cadmium, Total (7440-43-9)	X			< 0.0007							mg/L				1
5M. Chromium Total (7440-47-3)	X			< 0.005							mg/L				1
6M. Copper, Total (7440-50-8)	X			< 0.005							mg/L				1
7M. Lead, Total (7439-92-1)	X			< 0.001							mg/L				1
8M. Mercury Total (7439-97-6)	X			< 0.0002							mg/L				1
9M. Nickel, Total (7440-02-0)	X			0.005							mg/L				1
10M. Selenium, Total (7782-49-2)	X			0.0293							mg/L				1
11M. Silver, Total (7440-22-4)	X			< 0.001							mg/L				1
12M. Thallium, Total (7440-28-0)	X			< 0.001							mg/L				1
13M. Zinc, Total (7440-66-6)	X			< 0.010							mg/L				1
14M. Cyanide, Total (57-12-5)	X														
15M. Phenols, Total	X														
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1 POLLUTANT AND CAS NUMBER (*if available*)	2 MARK "X"			3 EFFLUENT							4. UNITS		5 INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			< 0.005							mg/L				
2V. Acrylonitrile (107-13-1)	X			< 0.005							mg/L				
3V Benzene (71-43-2)	X			< 0.005							mg/L				
4V. Bis (*Chloromethyl*) Ether (542-88-1)	X			0.000							mg/L				
5V. Bromoform (75-25-2)	X			< 0.005							mg/L				
6V Carbon Tetrachloride (56-23-5)	X			< 0.005							mg/L				
7V. Chlorobenzene (108-90-7)	X			< 0.005							mg/L				
8V. Chlorodibromomethane (124-48-1)	X			< 0.005							mg/L				
9V. Chloroethane (75-00-3)	X			< 0.010							mg/L				
10V 2-Chloroethylvinyl Ether (110-75-8)	X			< 0.005							mg/L				
11V Chloroform (67-66-3)	X			< 0.005							mg/L				
12V. Dichlorobromomethane (75-27-4)	X			< 0.005							mg/L				
13V Dichlorodifluoromethane (75-71-8)	X			< 0.010							mg/L				
14V 1,1-Dichloroethane (75-34-3)	X			< 0.005							mg/L				
15V 1,2-Dichloroethane (107-06-2)	X			< 0.005							mg/L				
16V. 1,1-Dichloroethylene (75-35-4)	X			< 0.005							mg/L				
17V 1,2-Dichloropropane (78-87-5)	X			< 0.005							mg/L				
18V. 1,3-Dichloropropylene (542-75-6)	X			< 0.005							mg/L				
19V Ethylbenzene (100-41-4)	X			< 0.005							mg/L				
20V. Methyl Bromide (74-83-9)	X			< 0.005							mg/L				
21V Methyl Chloride (74-87-3)	X			< 0.010							mg/L				

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2 MARK "X"			3 EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a MAXIMUM DAILY VALUE		b MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG VALUE (*if available*)		d NO. OF ANALYSES	a. CONCENTRATION	b MASS	a LONG TERM AVERAGE VALUE		b NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V Methylene Chloride (75-09-2)	X			< 0.005							mg/L				
23V 1.1.2.2-Tetrachloroethane (79-34-5)	X			< 0.005							mg/L				
24V Tetrachloro-ethylene (127-18-4)	X			< 0.005							mg/L				
25V Toluene (108-88-3)	X			< 0.005							mg/L				
26V. 1.2-Trans-Dichloroethylene (156-60-5)	X			< 0.005							mg/L				
27V. 1.1.1-Trichloro-ethane (71-55-6)	X			< 0.005							mg/L				
28V. 1.1.2-Trichloro-ethane (79-00-5)	X			< 0.005							mg/L				
29V Trichloro-ethylene (79-01-6)	X			< 0.005							mg/L				
30V Trichloro-fluoromethane (75-69-4)	X			< 0.005							mg/L				
31V Vinyl Chloride (75-01-4)	X			< 0.002							mg/L				
GC/MS FRACTION – ACID COMPOUNDS															
1A 2-Chlorophenol (95-57-8)	X			< 0.010							mg/L				
2A 2.4-Dichloro-phenol (120-83-2)	X			< 0.010							mg/L				
3A 2.4-Dimethyl-phenol (105-67-9)	X			< 0.010							mg/L				
4A 4,6-Dinitro-O-Cresol (534-52-1)	X			< 0.020							mg/L				
5A 2.4-Dinitro-phenol (51-28-5)	X			< 0.025							mg/L				
6A 2-Nitrophenol (88-75-5)	X			< 0.010							mg/L				
7A 4-Nitrophenol (100-02-7)	X			< 0.025							mg/L				
8A. P-Chloro-M-Cresol (59-50-7)	X			< 0.010							mg/L				
9A. Pentachloro-phenol (87-86-5)	X			< 0.025							mg/L				
10A Phenol (108-95-2)	X			< 0.010							mg/L				
11A. 2.4.6-Trichloro-phenol (88-05-2)	X			< 0.010							mg/L				

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B Acenaphthene (83-32-9)	X			< 0.010							mg/L				
2B Acenaphtylene (208-96-8)	X			< 0.010							mg/L				
3B Anthracene (120-12-7)	X			< 0.010							mg/L				
4B Benzidine (92-87-5)	X			< 0.080							mg/L				
5B Benzo (*a*) Anthracene (56-55-3)	X			< 0.010							mg/L				
6B Benzo (*a*) Pyrene (50-32-8)	X			< 0.010							mg/L				
7B 3,4-Benzo-fluoranthene (205-99-2)	X			< 0.010							mg/L				
8B Benzo (*ghi*) Perylene (191-24-2)	X			< 0.010							mg/L				
9B Benzo (*k*) Fluoranthene (207-08-9)	X			< 0.010							mg/L				
10B Bis (*2-Chloro-ethoxy*) Methane (111-91-1)	X			< 0.010							mg/L				
11B Bis (*2-Chloro-ethyl*) Ether (111-44-4)	X			< 0.010							mg/L				
12B Bis (*2-Chloroisopropyl*) Ether (102-80-1)	X			< 0.010							mg/L				
13B Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)	X			0.024							mg/L				
14B 4-Bromophenyl Phenyl Ether (101-55-3)	X			< 0.010							mg/L				
15B Butyl Benzyl Phthalate (85-68-7)	X			< 0.010							mg/L				
16B 2-Chloro-naphthalene (91-58-7)	X			< 0.010							mg/L				
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			< 0.010							mg/L				
18B. Chrysene (218-01-9)	X			< 0.010							mg/L				
19B Dibenzo (*a,h*) Anthracene (53-70-3)	X			< 0.010							mg/L				
20B 1,2-Dichloro-benzene (95-50-1)	X			< 0.010							mg/L				
21B 1,3-Di-chloro-benzene (541-73-1)	X			< 0.010							mg/L				

CONTINUED FROM PAGE V-6

1 POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3 EFFLUENT							4 UNITS		5 INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b MAXIMUM 30 DAY VALUE (*if available*)		c LONG TERM AVRG VALUE (*if available*)		d NO OF ANALYSES	a. CONCENTRATION	b MASS	a LONG TERM AVERAGE VALUE		b NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B 1,4-Dichlorobenzene (106-46-7)	X			< 0.010							mg/L				
23B 3,3-Dichlorobenzidine (91-94-1)	X			< 0.010							mg/L				
24B Diethyl Phthalate (84-66-2)	X			< 0.010							mg/L				
25B Dimethyl Phthalate (131-11-3)	X			< 0.010							mg/L				
26B Di-N-Butyl Phthalate (84-74-2)	X			< 0.010							mg/L				
27B 2,4-Dinitrotoluene (121-14-2)	X			< 0.010							mg/L				
28B 2,6-Dinitrotoluene (606-20-2)	X			< 0.010							mg/L				
29B Di-N-Octyl Phthalate (117-84-0)	X			< 0.010							mg/L				
30B 1,2-Diphenylhydrezine (*as Azobenzene*) (122-66-7)	X			< 0.010							mg/L				
31B Fluoranthene (206-44-0)	X			< 0.010							mg/L				
32B Fluorene (86-73-7)	X			< 0.010							mg/L				
33B Hexachlorobenzene (118-74-1)	X			< 0.010							mg/L				
34B Hexachlorobutadiene (87-68-3)	X			< 0.010							mg/L				
35B Hexachlorocyclopentadiene (77-47-4)	X			< 0.010							mg/L				
36B Hexachloroethane (67-72-1)	X			< 0.010							mg/L				
37B Indeno (*1,2,3-cd*) Pyrene (193-39-5)	X			< 0.010							mg/L				
38B Isophorone (78-59-1)	X			< 0.010							mg/L				
39B Naphthalene (91-20-3)	X			< 0.010							mg/L				
40B Nitrobenzene (98-95-3)	X			< 0.010							mg/L				
41B N-Nitrosodimethylamine (62-75-9)	X			< 0.010							mg/L				
42B N-Nitrosodi-N-Propylamine (621-64-7)	X			< 0.010							mg/L				

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5 INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a CONCENTRATION	b MASS	a LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B N-Nitro-sodiphenylamine (86-30-6)	X			< 0.010							mg/L				
44B Phenanthrene (85-01-8)	X			< 0.010							mg/L				
45B. Pyrene (129-00-0)	X			< 0.010							mg/L				
46B 1,2,4-Tri-chlorobenzene (120-82-1)	X			< 0.010							mg/L				
GC/MS FRACTION – PESTICIDES															
1P Aldrin (309-00-2)			X												
2P α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P Chlordane (57-74-9)			X												
7P 4,4'-DDT (50-29-3)			X												
8P 4,4'-DDE (72-55-9)			X												
9P 4,4'-DDD (72-54-8)			X												
10P Dieldrin (60-57-1)			X												
11P α-Endosulfan (115-29-7)			X												
12P β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P Endrin (72-20-8)			X												
15P Endrin Aldehyde (7421-93-4)			X												
16P Heptachlor (76-44-8)			X												

EPA I D NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2 MARK "X"			3 EFFLUENT							4 UNITS		5 INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c. BELIEVED ABSENT	a MAXIMUM DAILY VALUE		b MAXIMUM 30 DAY VALUE (*if available*)		c LONG TERM AVRG VALUE (*if available*)		d NO OF ANALYSES	a CONCEN-TRATION	b MASS	a LONG TERM AVERAGE VALUE		b NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P Heptachlor Epoxide (1024-57-3)			X												
18P PCB-1242 (53469-21-9)			X												
19P PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P Toxaphene (8001-35-2)			X												

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)

Form Approved.
OMB No 2040-0086
Approval expires 3-31-98.

FORM 2C NPDES EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water

A. OUTFALL NUMBER (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1. DEG	2. MIN	3. SEC	1. DEG	2. MIN	3. SEC	
DSN002	33.00	35.00	5.00	-86.00	47.00	9.00	FIVE MILE CREEK

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation, and (3) The treatment received by the wastewater. Continue on additional sheets if necessary

1. OUT-FALL NO (*list*)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
DSN002	COOLING WATER BLOWDOWN	38,000 gpd	SOLIDS SEPARATOR CELLS	1-M	1-U
	COKE TRUCK LOADING QUENCH	5,000 gpd	SOLIDS SEPARATOR CELLS	1-M	1-U
	COALBLENDING WASH WATER	7,200 gpd	SOLIDS SEPARATOR CELLS	1-M	1-U

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES (*complete the following table*) ☑ NO (*go to Section III*)

1. OUTFALL NUMBER (*list*)	2. OPERATION(s) CONTRIBUTING FLOW (*list*)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (*specify average*)	b. MONTHS PER YEAR (*specify average*)	a. FLOW RATE (*in mgd*)		B. TOTAL VOLUME (*specify with units*)		C. DURATION (*in days*)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES (*complete Item III-B*) ☑ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☐ YES (*complete Item III-C*) ☐ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (*list outfall numbers*)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions

☐ YES (*complete the following table*) ☑ NO (*go to Item IV-B*)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (*list all such pollutants below*) ☑ NO (*go to Item VI-B*)

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (*identify the test(s) and describe their purposes below*) ☐ NO (*go to Section VIII*)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☐ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☑ NO (*go to Section IX*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
Richard Owens/President	(205) 849-1300
C. SIGNATURE	D. DATE SIGNED
Richard K. Owens	9/26/13

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D NUMBER (*copy from Item 1 of Form 1*)

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO
DSN002

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO OF ANALYSES	3. UNITS (*specify if blank*) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	< 5						1	mg/L				
b. Chemical Oxygen Demand (*COD*)	32.5						1	mg/L				
c. Total Organic Carbon (*TOC*)	2.7						1	mg/L				
d. Total Suspended Solids (*TSS*)	8.5						1	mg/L				
e. Ammonia (*as N*)	0.562						1	mg/L				
f Flow	VALUE 0.608		VALUE		VALUE			mgd		VALUE		
g. Temperature (*winter*)	VALUE		VALUE		VALUE			°C		VALUE		
h. Temperature (*summer*)	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 7.9	MAXIMUM 7.9	MINIMUM	MAXIMUM			1	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall See the instructions for additional details and requirements

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a BELIEVED PRESENT	2. MARK "X" b BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	4 UNITS a. CONCENTRATION	4 UNITS b. MASS	5 INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5 INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5 INTAKE b. NO. OF ANALYSES
a Bromide (24959-67-9)		X												
b. Chlorine, Total Residual	X		< 0.200						1	mg/L				
c. Color	X		30						1	Pt-Co				
d Fecal Coliform		X												
e Fluoride (16984-48-8)		X												
f Nitrate-Nitrite (*as N*)	X		0.517						1	mg/L				

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		1.18						1	mg/L				
h. Oil and Grease		X												
i. Phosphorus (as P), Total (7723-14-0)	X		0.557						1	mg/L				
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO_4) (14808-79-8)		X												
l. Sulfide (as S)		X												
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)	X		0.241											
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)	X		0.400											
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

EPA I D NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
	DSN002

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			< 0.0050						1	mg/L				
2M. Arsenic, Total (7440-38-2)	X			0.0062						1	mg/L				
3M. Beryllium, Total (7440-41-7)	X			< 0.0010						1	mg/L				
4M. Cadmium, Total (7440-43-9)	X			< 0.0007						1	mg/L				
5M. Chromium, Total (7440-47-3)	X			< 0.0050						1	mg/L				
6M. Copper, Total (7440-50-8)	X			< 0.0050						1	mg/L				
7M. Lead, Total (7439-92-1)	X			< 0.0010						1	mg/L				
8M. Mercury, Total (7439-97-6)	X			< 0.00020						1	mg/L				
9M. Nickel, Total (7440-02-0)	X			< 0.0050						1	mg/L				
10M. Selenium, Total (7782-49-2)	X			< 0.0050						1	mg/L				
11M. Silver, Total (7440-22-4)	X			< 0.0010						1	mg/L				
12M. Thallium, Total (7440-28-0)	X			< 0.0010						1	mg/L				
13M. Zinc, Total (7440-66-6)	X			< 0.0100						1	mg/L				
14M. Cyanide, Total (57-12-5)	X			< 0.0100						1	mg/L				
15M. Phenols, Total	X			< 0.0100						1	mg/L				
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1 POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3 EFFLUENT							4 UNITS		5 INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG VALUE (*if available*)		d NO. OF ANALYSES	a CONCENTRATION	b MASS	a. LONG TERM AVERAGE VALUE		b NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V Accrolein (107-02-8)	X			< 0.020						1	mg/L				
2V. Acrylonitrile (107-13-1)	X			< 0.005						1	mg/L				
3V Benzene (71-43-2)	X			< 0.005						1	mg/L				
4V. Bis (*Chloromethyl*) Ether (542-88-1)	X			< 0.100						1	mg/L				
5V. Bromoform (75-25-2)	X			< 0.005						1	mg/L				
6V. Carbon Tetrachloride (56-23-5)	X			< 0.005						1	mg/L				
7V Chlorobenzene (108-90-7)	X			< 0.005						1	mg/L				
8V Chlorodibromomethane (124-48-1)	X			< 0.005						1	mg/L				
9V Chloroethane (75-00-3)	X			< 0.010						1	mg/L				
10V 2-Chloroethylvinyl Ether (110-75-8)	X			< 0.005						1	mg/L				
11V. Chloroform (67-66-3)	X			< 0.005						1	mg/L				
12V. Dichlorobromomethane (75-27-4)	X			< 0.005						1	mg/L				
13V Dichlorodifluoromethane (75-71-8)	X			< 0.005						1	mg/L				
14V 1,1-Dichloroethane (75-34-3)	X			< 0.005						1	mg/L				
15V. 1,2-Dichloroethane (107-06-2)	X			< 0.005						1	mg/L				
16V 1,1-Dichloroethylene (75-35-4)	X			< 0.005						1	mg/L				
17V. 1,2-Dichloropropane (78-87-5)	X			< 0.005						1	mg/L				
18V. 1,3-Dichloropropylene (542-75-6)	X			< 0.005						1	mg/L				
19V Ethylbenzene (100-41-4)	X			< 0.005						1	mg/L				
20V. Methyl Bromide (74-83-9)	X			< 0.005						1	mg/L				
21V Methyl Chloride (74-87-3)	X			< 0.010						1	mg/L				

CONTINUED FROM PAGE V-4

1 POLLUTANT AND CAS NUMBER (*if available*)	2 MARK "X"			3 EFFLUENT							4 UNITS		5. INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a CONCENTRATION	b MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)	X			< 0.005						1	mg/L				
23V 1,1,2,2-Tetrachloroethane (79-34-5)	X			< 0.005						1	mg/L				
24V Tetrachloro-ethylene (127-18-4)	X			< 0.005						1	mg/L				
25V. Toluene (108-88-3)	X			< 0.005						1	mg/L				
26V 1,2-Trans-Dichloroethylene (156-60-5)	X			< 0.005						1	mg/L				
27V. 1,1,1-Trichloro-ethane (71-55-6)	X			< 0.005						1	mg/L				
28V 1,1,2-Trichloro-ethane (79-00-5)	X			< 0.005						1	mg/L				
29V Trichloro-ethylene (79-01-6)	X			< 0.005						1	mg/L				
30V Trichloro-fluoromethane (75-69-4)	X			< 0.005						1	mg/L				
31V. Vinyl Chloride (75-01-4)	X			< 0.002						1	mg/L				
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			< 0.010						1	mg/L				
2A 2,4-Dichloro-phenol (120-83-2)	X			< 0.010						1	mg/L				
3A 2,4-Dimethyl-phenol (105-67-9)	X			< 0.010						1	mg/L				
4A 4,6-Dinitro-O-Cresol (534-52-1)	X			< 0.020						1	mg/L				
5A. 2,4-Dinitro-phenol (51-28-5)	X			< 0.025						1	mg/L				
6A 2-Nitrophenol (88-75-5)	X			< 0.010						1	mg/L				
7A 4-Nitrophenol (100-02-7)	X			< 0.025						1	mg/L				
8A. P-Chloro-M-Cresol (59-50-7)	X			< 0.010						1	mg/L				
9A Pentachloro-phenol (87-86-5)	X			< 0.025						1	mg/L				
10A Phenol (108-95-2)	X			< 0.010						1	mg/L				
11A 2,4,6-Trichloro-phenol (88-05-2)	X			< 0.010						1	mg/L				

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4 UNITS		5. INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c LONG TERM AVRG. VALUE (*if available*)		d NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B Acenaphthene (83-32-9)	X			< 0.010						1	mg/L				
2B Acenaphtylene (208-96-8)	X			< 0.010						1	mg/L				
3B Anthracene (120-12-7)	X			< 0.010						1	mg/L				
4B Benzidine (92-87-5)	X			< 0.080						1	mg/L				
5B Benzo (*a*) Anthracene (56-55-3)	X			< 0.010						1	mg/L				
6B Benzo (*a*) Pyrene (50-32-8)	X			< 0.010						1	mg/L				
7B 3,4-Benzo-fluoranthene (205-99-2)	X			< 0.010						1	mg/L				
8B Benzo (*ghi*) Perylene (191-24-2)	X			< 0.010						1	mg/L				
9B Benzo (*k*) Fluoranthene (207-08-9)	X			< 0.010						1	mg/L				
10B Bis (*2-Chloro-ethoxy*) Methane (111-91-1)	X			< 0.010						1	mg/L				
11B Bis (*2-Chloro-ethyl*) Ether (111-44-4)	X			< 0.010						1	mg/L				
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)	X			< 0.010						1	mg/L				
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)	X			< 0.010						1	mg/L				
14B 4-Bromophenyl Phenyl Ether (101-55-3)	X			< 0.010						1	mg/L				
15B. Butyl Benzyl Phthalate (85-68-7)	X			< 0.010						1	mg/L				
16B 2-Chloro-naphthalene (91-58-7)	X			< 0.010						1	mg/L				
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			< 0.010						1	mg/L				
18B Chrysene (218-01-9)	X			< 0.010						1	mg/L				
19B Dibenzo (*a h*) Anthracene (53-70-3)	X			< 0.010						1	mg/L				
20B 1,2-Dichloro-benzene (95-50-1)	X			< 0.010						1	mg/L				
21B. 1,3-Di-chloro-benzene (541-73-1)	X			< 0.010						1	mg/L				

CONTINUED FROM PAGE V-6

1 POLLUTANT AND CAS NUMBER (*if available*)	2 MARK "X"			3 EFFLUENT							4 UNITS		5 INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a MAXIMUM DAILY VALUE		b MAXIMUM 30 DAY VALUE (*if available*)		c LONG TERM AVRG VALUE (*if available*)		d NO OF ANALYSES	a CONCENTRATION	b MASS	a LONG TERM AVERAGE VALUE		b NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichlorobenzene (106-46-7)	X			< 0.010						1	mg/L				
23B 3,3-Dichlorobenzidine (91-94-1)	X			< 0.010						1	mg/L				
24B Diethyl Phthalate (84-66-2)	X			< 0.010						1	mg/L				
25B Dimethyl Phthalate (131-11-3)	X			< 0.010						1	mg/L				
26B Di-N-Butyl Phthalate (84-74-2)	X			< 0.010						1	mg/L				
27B 2,4-Dinitrotoluene (121-14-2)	X			< 0.010						1	mg/L				
28B 2,6-Dinitrotoluene (606-20-2)	X			< 0.010						1	mg/L				
29B Di-N-Octyl Phthalate (117-84-0)	X			< 0.010						1	mg/L				
30B. 1,2-Diphenylhydrazine (as *Azobenzene*) (122-66-7)	X			< 0.010						1	mg/L				
31B. Fluoranthene (206-44-0)	X			< 0.010						1	mg/L				
32B Fluorene (86-73-7)	X			< 0.010						1	mg/L				
33B Hexachlorobenzene (118-74-1)	X			< 0.010						1	mg/L				
34B Hexachlorobutadiene (87-68-3)	X			< 0.010						1	mg/L				
35B Hexachlorocyclopentadiene (77-47-4)	X			< 0.010						1	mg/L				
36B Hexachloroethane (67-72-1)	X			< 0.010						1	mg/L				
37B Indeno (1,2,3-*cd*) Pyrene (193-39-5)	X			< 0.010						1	mg/L				
38B Isophorone (78-59-1)	X			< 0.010						1	mg/L				
39B Naphthalene (91-20-3)	X			< 0.010						1	mg/L				
40B Nitrobenzene (98-95-3)	X			< 0.010						1	mg/L				
41B. N-Nitrosodimethylamine (62-75-9)	X			< 0.010						1	mg/L				
42B N-Nitrosodi-N-Propylamine (621-64-7)	X			< 0.010						1	mg/L				

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2 MARK "X"			3 EFFLUENT							4 UNITS		5 INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG VALUE (*if available*)		d. NO. OF ANALYSES	a CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitrosodiphenylamine (86-30-6)	X			< 0.010							mg/L				
44B. Phenanthrene (85-01-8)	X			< 0.025							mg/L				
45B. Pyrene (129-00-0)	X			< 0.010							mg/L				
46B. 1,2,4-Trichlorobenzene (120-82-1)	X			< 0.010						1	mg/L				
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

EPA I D NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
	DSN002

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

Please print or type in the unshaded areas only.

EPA ID Number (*copy from Item 1 of Form 1*)
AL 00003417

Form Approved OMB No. 2040-0086
Approval expires 5-31-92

FORM 2F NPDES

U.S. Environmental Protection Agency
Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water

A. Outfall Number (*list*)	B. Latitude			C. Longitude			D. Receiving Water (*name*)
DSN 002	33.00	35.00	5.00	86.00	47.00	9.00	Five Mile Creek

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
N/A					

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures, the drainage area of each storm water outfall, paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground, springs, and other surface water bodies which received storm water discharges from the facility.

Continue on Page 2

Continued from the Front

IV. Narrative Description of Pollutant Sources

A For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall

Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*	Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*
002	543,100 sf	4,104,900 sf			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff, materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied

The only material stored in the drainage area is coal and coke.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge

Outfall Number	Treatment	List Codes from Table 2F-1
002	The stormwater runoff is channeled through a settling basin. Prior to discharge it passes through a filter dam.	1-R, 1-U

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

Name and Official Title *(type or print)*	Signature	Date Signed
Richard Owens	Richard R. Owens	9/27/13

B Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Outfall DSN002 was sampled for CBOD, COD, TOC, TSS, NO2/NO3, CL, Metals, SVOCs, N, P, CN, VOCs, phenols, and color on July 29, 2013.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

N/A

Continued from Page 2

EPA ID Number *(copy from Item 1 of Form 1)*
AL 00003417

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.
Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ Yes *(list all such pollutants below)* ☑ No *(go to Section IX)*

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☑ Yes *(list all such pollutants below)* ☐ No *(go to Section IX)*

Monthly chronic toxicity testing is preformed on effluent from Outfall DSN001 (process waste water) per the facility's existing NPDES permit.

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☑ Yes *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☐ No *(go to Section X)*

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
LRS, Inc.	163 5th Street, Ashville, AL 35953	(205) 683-6731	CBOD, COD, TOC, TSS, NO2/NO3, CL, Metals, SVOCs, N, P, CN, VOCs, phenols, and color

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A Name & Official Title *(Type Or Print)*	B Area Code and Phone No.
Richard Owens, President	(205) 849-1300
C Signature	D Date Signed
	9/27/13

VII. Discharge information *(Continued from page 3 of Form 2F)*

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall See instructions for additional details

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	<0.005 mg/L	N/A				
Biological Oxygen Demand (BOD5)	<0.005 mg/L				1	
Chemical Oxygen Demand (COD)	32.5 mg/L				1	
Total Suspended Solids (TSS)	8.5 mg/L				1	
Total Nitrogen	1.18 mg/L				1	
Total Phosphorus	0.557 mg/L				1	
pH	Minimum 7.9	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Ammonia as N	0.562 mg/L				1	Coal Piles
CN (Total)	0.010 mg/L				1	
Benzene	<0.005 mg/L				1	
Naphthalene	<0.010 mg/L				1	
B(a)P	<0 010 mg/L				1	
Phenolics	<0.05 mg/L				1	
Nitrate/Nitrite	0.517 mg/L				1	
Cl	<0.200 mg/L				1	
TOC	2.7 mg/L				1	
Color	30 Pt/Co				1	
As	6.24 ug/L				1	
Fe	241 ug/L				1	
Mn	400 ug/L				1	
Other Metals	BRL					
Other SVOCs	BRL					

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

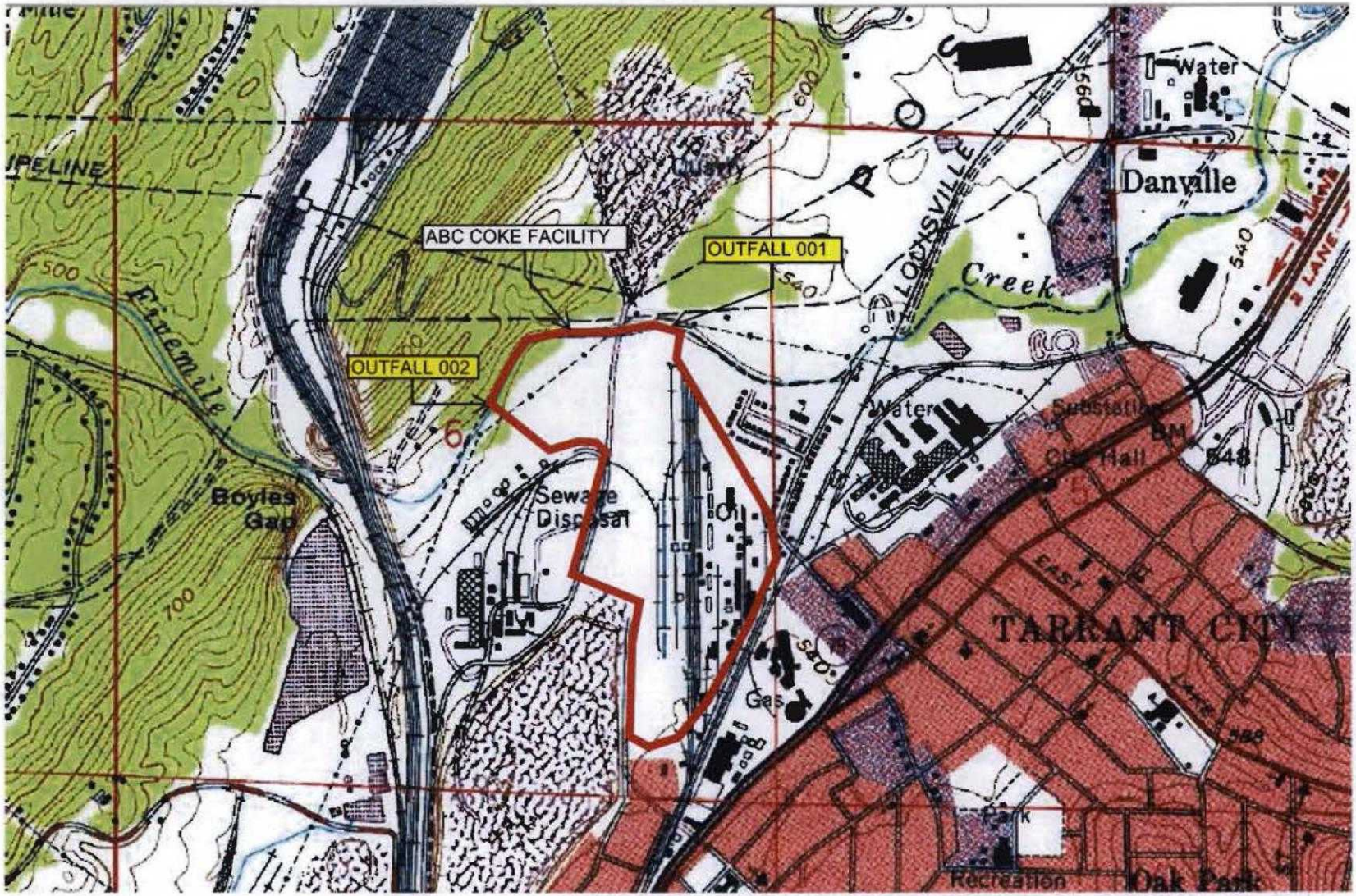
Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample

1 Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5 Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
11/14/07	90	0.84	48	x	x

7. Provide a description of the method of flow measurement or estimate.

Storm water flow is measured using a level gauge.



USGS TOPOGRAPHIC MAP BIRMINGHAM NORTH QUADRANGLE

ABC COKE FACILITY WITH STORM WATER OUTFALL LOCATIONS

NPDES PERMIT RENEWAL 2013

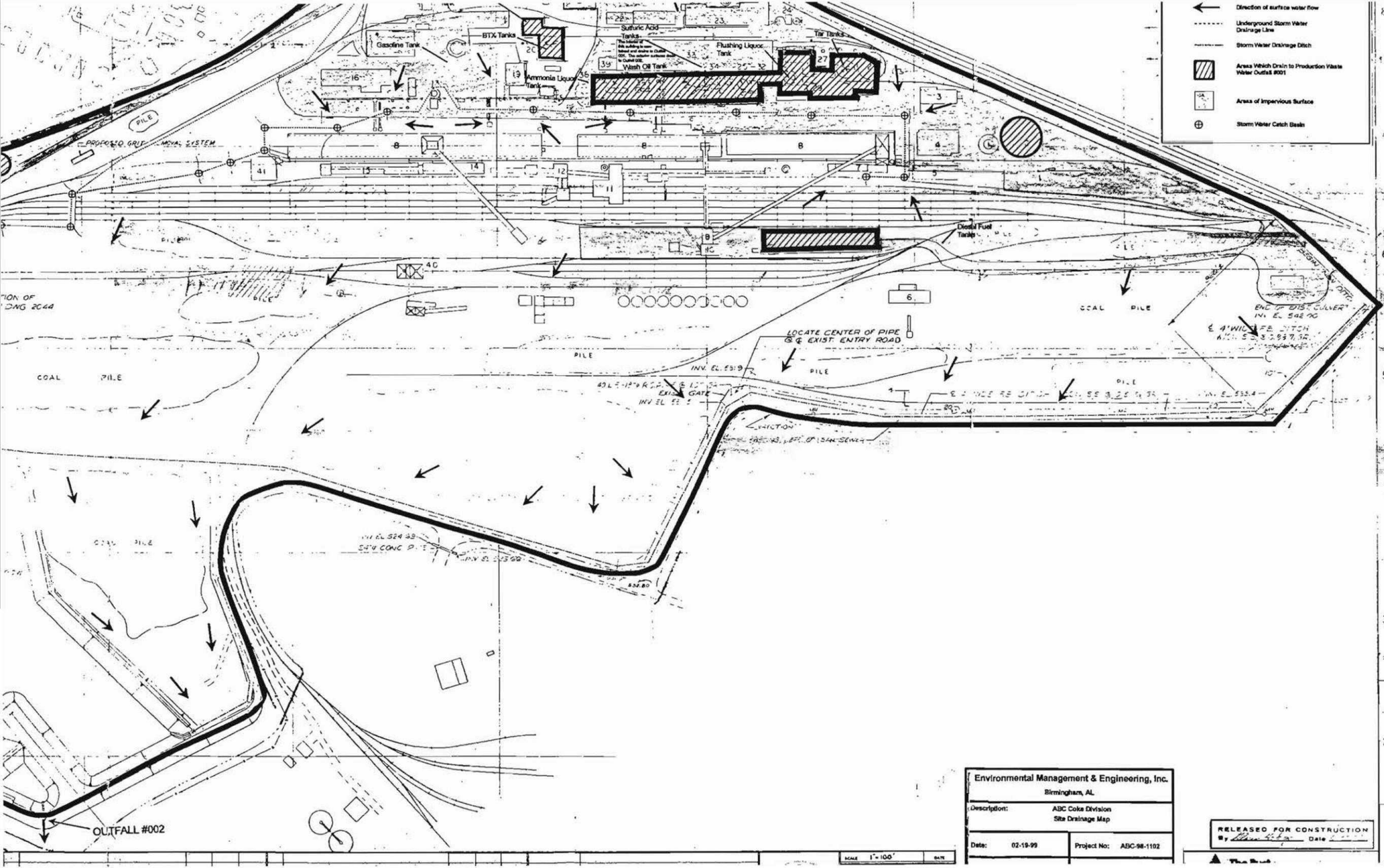
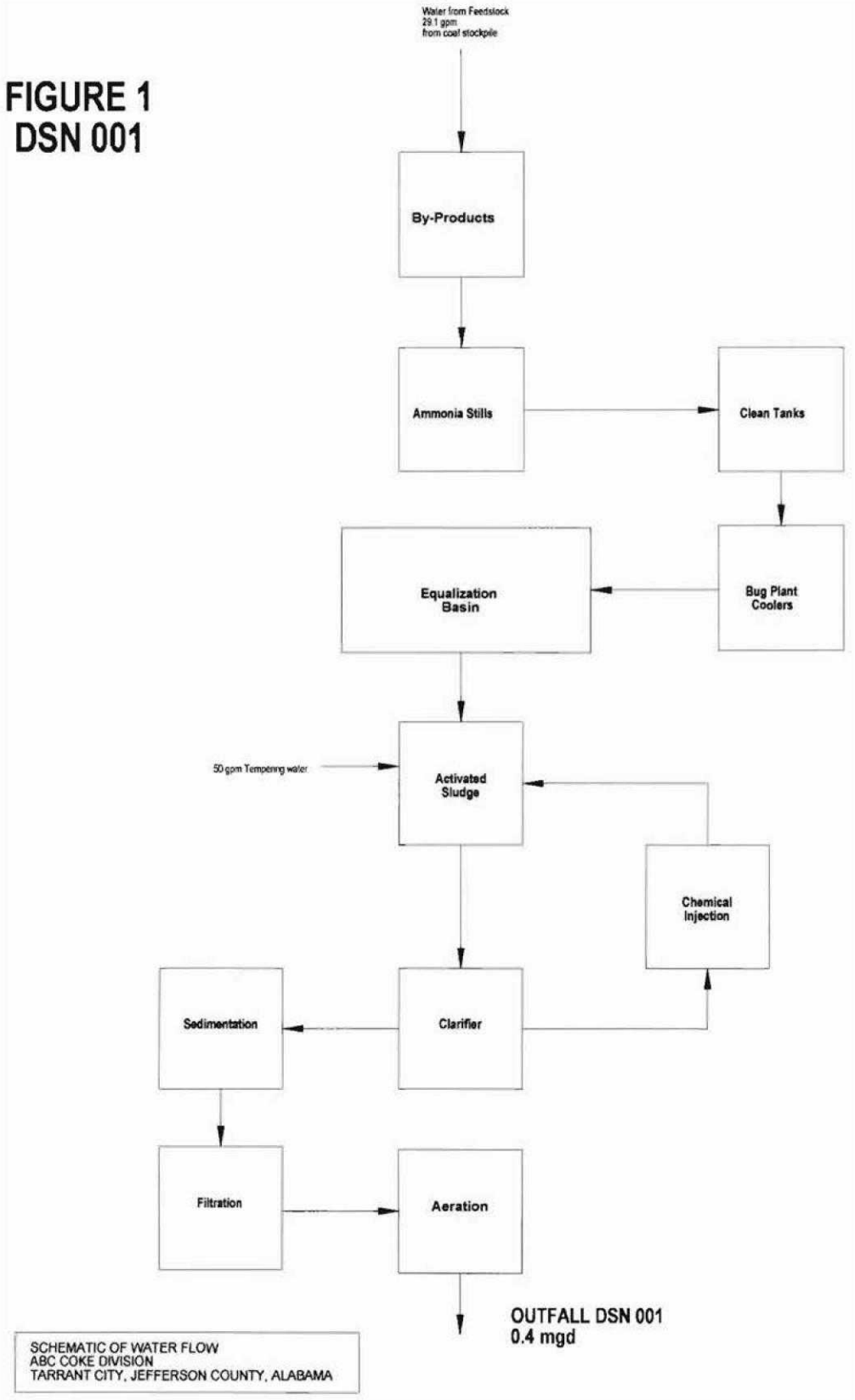
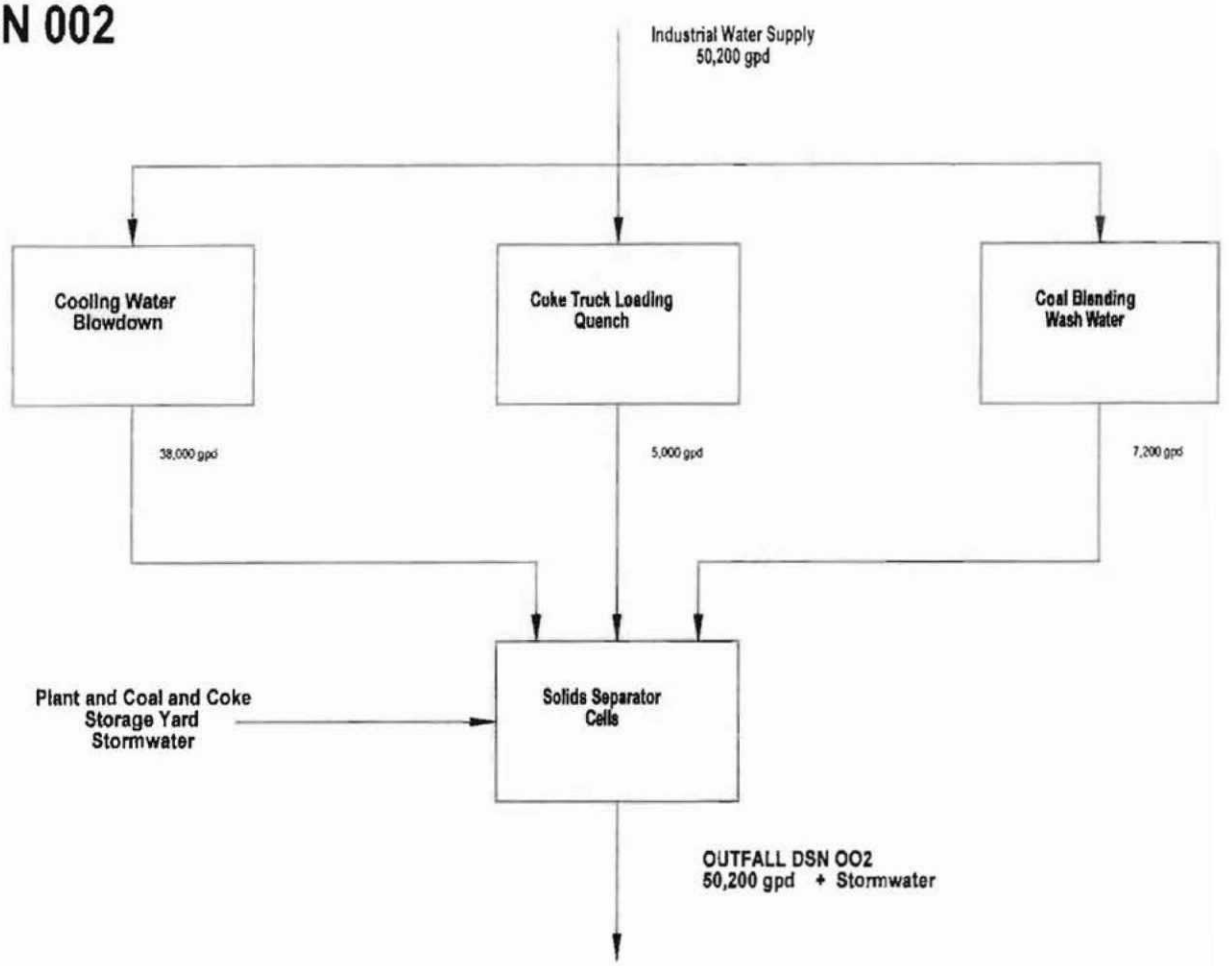

Direction of surface water flow
Underground Storm Water Drainage Line
Storm Water Drainage Ditch
Areas Which Drain to Production Waste Water Outfall #001
Areas of Impervious Surface
Storm Water Catch Basin
Gasoline Tank
BTX Tanks
Sulfuric Acid Tanks
Tar Tanks
Flushing Liquor Tank
Wash Oil Tank
Ammonia Liquor Tank
Diesel Fuel Tanks
PROPOSED GRIT REMOVAL SYSTEM
COAL PILE
LOCATE CENTER OF PIPE @ EXIST. ENTRY ROAD
EXIST. GATE
OUTFALL #002
Environmental Management & Engineering, Inc.
Birmingham, AL
Description: ABC Coke Division
Site Drainage Map
Date: 02-19-99
Project No: ABC-98-1102
SCALE 1" = 100'
RELEASED FOR CONSTRUCTION

FIGURE 1
DSN 001



SCHEMATIC OF WATER FLOW
ABC COKE DIVISION
TARRANT CITY, JEFFERSON COUNTY, ALABAMA

FIGURE 2
DSN 002



SCHEMATIC OF WATER FLOW
ABC COKE DIVISION
TARRANT CITY, JEFFERSON COUNTY, ALABAMA

LRS, Inc.

Laboratory Resources & Solutions, Inc.

163 5th Street
Ashville, AL 35953
(205) 683-6731

www.lab-resource.com

Analytical Data Report

CLIENT ABC Coke
P.O. Box 10246
Birmingham AL 35202

ATTENTION Tommy Pike

PROJECT ID NPDES Permit Renewal 001

LABORATORY REPORT NUMBER 1309271

DATE September 17, 2013

Primary Data Review By

Nicole Jessup

Project Manager
Analytical Environmental Services
njessup@aesatlanta.com

Secondary Data Review By

Wayne Gaston

Project Manager
Laboratory Resources & Solutions, Inc
wgaston@lab-resource.com

PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3785 Presidential Parkway, Atlanta, GA 30340.
- AES is certified in the following: NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
  AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.
- These results relate only to the items tested. This report may only be reproduced in full.
- Local support services for this project are provided by Laboratory Resources & Solutions, Inc. (LRS). All questions regarding this report should be directed to LRS, Inc. at (205) 683-6731.

13092-1

2 of 37

Billing Information:

LRS, Inc.
163 5th Street
Ashville, Alabama 35953
(205) 683 - 6731
wgaston@lab-resource.com

LRS Client Information:

ABC Coke
P.O. Box 10246
Birmingham, AL 35202

LRS Client: **Tommy Pike**

Project Name: **NPDES Permit Renewal 001**
City/State collected: Birmingham, Alabama
Client Project #:
Lab Project #
Collected by: W. Gaston
Site ID:
P.O.#
Collected by(signature): Wayne Dent
Packed on Ice N__ Y X

Rush? (LRS MUST be Notified)
_____Same Day.....200%
___Next Day.....100%
_____Two Day.....50%

Date Results Needed STD
Email?__No _X Yes
FAX?_X_No__Yes

No of Cntrs

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	Color E110.2 (1 - 250 ml HDPE, nonpreserved)	COD E410.4, TOC E415.1 (1-500mL HDPE H2SO4 pres)	**Total Metals-E200.7/200.8/245.1 (1-250mL HDPE HNO3 preserved)	***SVOC E625 (2-1L Amber glass unpreserved)	Bis(chloromethyl) ether SW8270 (2 - 1 Liter Amber Glass, nonpreserved)	TotalOrganic Nitrogen (4500-N C) (1 - 500 mL H2SO4 pres.)	***VOC E624 (3-40mL VOA HCL preserved)	Remarks/contaminant	Sample # (lab only)
001	~~WD Grab~~ Comp.	Water	*****	9-4-13	0730	11	1	1	1	2	2	1	3	***see attached list	Initial pH checked.
														pH= 6.80 as per ABC	
														~~pH meter 3-pt. Calibration~~ WD	
														~~09-04-13/1127/2SU~~ WD	

Chain of Custody
Page 1 of 1

LRS, Inc.
A Laboratory Service Provider
Phone: 205.683.6731
FAX: 205.594.7302

Laboratory:
Analytical Environmental Service
3785 Presidential Parkway
Atlanta, GA 30340
Shipped Via: Fedex#: 1593-1249-6

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water SW-Stormwater OT- Other_____ pH 6.80 Temp_____

Remarks: **Metals - Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn - Metals** Rainfall in Inches _____ Flow_____ Other_____

Relinquished by:(Signature)	Date:	Time:	Received by:(Signature)	Samples returned via: FedEx UPS Other	Condition (lab use only)
Wayne Dent	9-04-13	1715	Fed Ex		
Relinquished by:(Signature) Fed Ex	Date:	Time:	Received by: (Signature)	Temp: / Bottles Received:	
Relinquished by:(Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/5/13 Time: 1080	pH Checked: NCF:

Client signature implies acceptance of LRS Terms and Conditions www.lab-resource.com

F

1309271

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	2. MARK "X" b. BELIEVED PRESENT	2. MARK "X" c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION - VOLATILE COMPOUNDS															
LRS 1V. Acrolein (107-02-8)															
2V. Acrylonitrile (107-13-1)															
3V. Benzene (71-43-2)															
4V. Bis (Chloromethyl) Ether (542-88-1) → Lab must use 8270 for this compound only. YD															
5V. Bromoform (75-25-2)															
6V. Carbon Tetrachloride (56-23-5)															
7V. Chlorobenzene (108-90-7)															
8V. Chlorodibromomethane (124-48-1)															
9V. Chloroethane (75-00-3)															
10V. 2-Chloroethylvinyl Ether (110-75-8)															
11V. Chloroform (67-66-3)															
12V. Dichlorobromomethane (75-27-4)															
13V. Dichlorodifluoromethane (75-71-8)															
14V. 1,1-Dichloroethane (75-34-3)															
15V. 1,2-Dichloroethane (107-06-2)															
16V. 1,1-Dichloroethylene (75-35-4)															
17V. 1,2-Dichloropropane (78-87-5)															
18V. 1,3-Dichloropropylene (542-75-6)															
19V. Ethylbenzene (100-41-4)															
20V. Methyl Bromide (74-83-9)															
21V. Methyl Chloride (74-87-3)															

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)															
23V. 1,1,2,2-Tetrachloroethane (79-34-5)															
24V. Tetrachloroethylene (127-18-4)															
25V. Toluene (108-88-3)															
26V. 1,2-Trans-Dichloroethylene (156-60-5)															
27V. 1,1,1-Trichloroethane (71-55-6)															
28V. 1,1,2-Trichloroethane (79-00-5)															
29V Trichloroethylene (79-01-6)															
30V. Trichlorofluoromethane (75-69-4)															
31V. Vinyl Chloride (75-01-4)															
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)															
2A. 2,4-Dichlorophenol (120-83-2)															
3A. 2,4-Dimethylphenol (105-67-9)															
4A. 4,6-Dinitro-O-Cresol (534-52-1)															
5A. 2,4-Dinitrophenol (51-28-5)															
6A. 2-Nitrophenol (88-75-5)															
7A. 4-Nitrophenol (100-02-7)															
8A. P-Chloro-M-Cresol (59-50-7)															
9A. Pentachlorophenol (87-86-5)															
10A. Phenol (108-95-2)															
11A. 2,4,6-Trichlorophenol (88-05-2)															

LRS

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CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)															
2B. Acenaphtylene (208-96-8)															
3B. Anthracene (120-12-7)															
4B. Benzidine (92-87-5)															
5B. Benzo (*a*) Anthracene (56-55-3)															
6B. Benzo (*a*) Pyrene (50-32-8)															
7B. 3,4-Benzo-fluoranthene (205-99-2)															
8B. Benzo (*ghi*) Perylene (191-24-2)															
9B. Benzo (*k*) Fluoranthene (207-08-9)															
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)															
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)															
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)															
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)															
14B. 4-Bromophenyl Phenyl Ether (101-55-3)															
15B. Butyl Benzyl Phthalate (85-68-7)															
16B. 2-Chloro-naphthalene (91-58-7)															
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)															
18B. Chrysene (218-01-9)															
19B. Dibenzo (*a,h*) Anthracene (53-70-3)															
20B. 1,2-Dichloro-benzene (95-50-1)															
21B. 1,3-Di-chloro-benzene (541-73-1)															

LRS

130 9271

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X" a. TESTING REQUIRED	2. MARK "X" b. BELIEVED PRESENT	2. MARK "X" c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (*optional*) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichlorobenzene (106-46-7)															
23B. 3,3-Dichlorobenzidine (91-94-1)															
24B. Diethyl Phthalate (84-66-2)															
25B. Dimethyl Phthalate (131-11-3)															
26B. Di-N-Butyl Phthalate (84-74-2)															
27B. 2,4-Dinitrotoluene (121-14-2)															
28B. 2,6-Dinitrotoluene (606-20-2)															
29B. Di-N-Octyl Phthalate (117-84-0)															
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)															
31B. Fluoranthene (206-44-0)															
32B. Fluorene (86-73-7)															
33B. Hexachlorobenzene (118-74-1)															
34B. Hexachlorobutadiene (87-68-3)															
35B. Hexachlorocyclopentadiene (77-47-4)															
36B Hexachloroethane (67-72-1)															
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)															
38B. Isophorone (78-59-1)															
39B. Naphthalene (91-20-3)															
40B. Nitrobenzene (98-95-3)															
41B. N-Nitrosodimethylamine (62-75-9)															
42B. N-Nitrosodi-N-Propylamine (621-64-7)															

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CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitrosodiphenylamine (86-30-6)															
44B. Phenanthrene (85-01-8)															
45B. Pyrene (129-00-0)															
46B. 1,2,4-Trichlorobenzene (120-82-1)															
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)															
2P. α-BHC (319-84-6)															
3P. β-BHC (319-85-7)															
4P. γ-BHC (58-89-9)															
5P. δ-BHC (319-86-8)															
6P. Chlordane (57-74-9)															
7P. 4,4'-DDT (50-29-3)															
8P. 4,4'-DDE (72-55-9)															
9P. 4,4'-DDD (72-54-8)															
10P. Dieldrin (60-57-1)															
11P. α-Endosulfan (115-29-7)															
12P. β-Endosulfan (115-29-7)															
13P. Endosulfan Sulfate (1031-07-8)															
14P. Endrin (72-20-8)															
15P. Endrin Aldehyde (7421-93-4)															
16P. Heptachlor (76-44-8)															

LRS

1309211

Client: ABC Coke
Project: NPDES Permit Renewal 001
Lab ID: 1309271

Case Narrative

Volatile Organic Compounds Analysis by Method 624:

LCS-180695 recovery for 2-Chloroethyl vinyl ether was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Semi-Volatile organics Analysis by Method 625:

LCS-180814recovery for 4,6 dinitro-2-methylphenol was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Analytical Environmental Services, Inc **Date:** 19-Sep-13

Client:	ABC Coke	**Client Sample ID:**	001
Project Name:	NPDES Permit Renewal 001	**Collection Date:**	9/4/2013 7:30:00 AM
Lab ID:	1309271-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Antimony	BRL	5.00		ug/L	180797	1	09/13/2013 03:46	TA
Arsenic	BRL	5.00		ug/L	180797	1	09/13/2013 03:46	TA
Beryllium	BRL	1.00		ug/L	180797	1	09/16/2013 12:57	TA
Cadmium	BRL	0.700		ug/L	180797	1	09/13/2013 03:46	TA
Chromium	BRL	5.00		ug/L	180797	1	09/13/2013 03:46	TA
Copper	BRL	5.00		ug/L	180797	1	09/13/2013 03:46	TA
Lead	BRL	1.00		ug/L	180797	1	09/13/2013 03:46	TA
Nickel	5.14	5.00		ug/L	180797	1	09/13/2013 03:46	TA
Selenium	29.3	5.00		ug/L	180797	1	09/13/2013 03:46	TA
Silver	BRL	1.00		ug/L	180797	1	09/13/2013 03:46	TA
Thallium	BRL	1.00		ug/L	180797	1	09/13/2013 03:46	TA
Zinc	BRL	10.0		ug/L	180797	1	09/13/2013 03:46	TA
Total Organic Nitrogen SM4500-N C								
Nitrogen, Organic	1.41	0.500		mg/L	R251819	1	09/12/2013 00:00	LV
Total Mercury E245.1				**(E245.1)**				
Mercury	BRL	0.00020		mg/L	180810	1	09/09/2013 13:47	CG
T. Organic Carbon(TOC)(E415.1/SM5310B)								
Organic Carbon, Total	14.4	1.0		mg/L	R251793	1	09/11/2013 12:31	ME
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Bis(chloromethyl) ether	0	0		ug/L	180814	1	09/11/2013 10:38	YH
PRIORITY POLLUTANT-VOLATILES E624				**(E624)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
1,1-Dichloroethane	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
1,1-Dichloroethene	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
1,2-Dichloroethane	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
1,2-Dichloropropane	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
2-Chloroethyl vinyl ether	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Acrolein	BRL	20		ug/L	180695	1	09/05/2013 20:41	AR
Acrylonitrile	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Benzene	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Bromodichloromethane	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Bromoform	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Bromomethane	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Carbon tetrachloride	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 19-Sep-13

Client:	ABC Coke	**Client Sample ID:**	001
Project Name:	NPDES Permit Renewal 001	**Collection Date:**	9/4/2013 7:30:00 AM
Lab ID:	1309271-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
PRIORITY POLLUTANT-VOLATILES E624				(E624)				
Chlorobenzene	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Chloroethane	BRL	10		ug/L	180695	1	09/05/2013 20:41	AR
Chloroform	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Chloromethane	BRL	10		ug/L	180695	1	09/05/2013 20:41	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Dibromochloromethane	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Dichlorodifluoromethane	BRL	10		ug/L	180695	1	09/05/2013 20:41	AR
Ethylbenzene	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Methylene chloride	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Tetrachloroethene	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Toluene	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Trichloroethene	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Trichlorofluoromethane	BRL	5.0		ug/L	180695	1	09/05/2013 20:41	AR
Vinyl chloride	BRL	2.0		ug/L	180695	1	09/05/2013 20:41	AR
Surr: 4-Bromofluorobenzene	97.4	64.6-123		%REC	180695	1	09/05/2013 20:41	AR
Surr: Dibromofluoromethane	96.1	76.6-133		%REC	180695	1	09/05/2013 20:41	AR
Surr: Toluene-d8	95.4	77.8-120		%REC	180695	1	09/05/2013 20:41	AR
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625				(E625)				
1,2,4-Trichlorobenzene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
1,2-Dichlorobenzene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
1,2-Diphenylhydrazine	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
1,3-Dichlorobenzene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
1,4-Dichlorobenzene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
2,4-Dichlorophenol	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
2,4-Dimethylphenol	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
2,4-Dinitrophenol	BRL	25		ug/L	180814	1	09/10/2013 08:39	YH
2,4-Dinitrotoluene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
2,6-Dinitrotoluene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
2-Chloronaphthalene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
2-Chlorophenol	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
2-Nitrophenol	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
4,6-Dinitro-2-methylphenol	BRL	20		ug/L	180814	1	09/10/2013 08:39	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
4-Nitrophenol	BRL	25		ug/L	180814	1	09/10/2013 08:39	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 19-Sep-13

Client:	ABC Coke	**Client Sample ID:**	001
Project Name:	NPDES Permit Renewal 001	**Collection Date:**	9/4/2013 7:30:00 AM
Lab ID:	1309271-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625				**(E625)**				
Acenaphthene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Acenaphthylene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Anthracene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Benz(a)anthracene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Benzidine	BRL	80		ug/L	180814	1	09/10/2013 08:39	YH
Benzo(a)pyrene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Benzo(b)fluoranthene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Benzo(k)fluoranthene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Bis(2-ethylhexyl)phthalate	24	10		ug/L	180814	1	09/10/2013 08:39	YH
Butyl benzyl phthalate	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Chrysene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Di-n-butyl phthalate	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Di-n-octyl phthalate	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Diethyl phthalate	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Dimethyl phthalate	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Fluoranthene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Fluorene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Hexachlorobenzene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Hexachlorobutadiene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Hexachloroethane	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Isophorone	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
N-Nitrosodimethylamine	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Naphthalene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Nitrobenzene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Pentachlorophenol	BRL	25		ug/L	180814	1	09/10/2013 08:39	YH
Phenanthrene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Phenol	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Pyrene	BRL	10		ug/L	180814	1	09/10/2013 08:39	YH
Surr: 2,4,6-Tribromophenol	89	50.9-150		%REC	180814	1	09/10/2013 08:39	YH
Surr: 2-Fluorobiphenyl	82.5	50.7-121		%REC	180814	1	09/10/2013 08:39	YH
Surr: 2-Fluorophenol	48.4	25.6-120		%REC	180814	1	09/10/2013 08:39	YH
Surr: 4-Terphenyl-d14	87.6	44-147		%REC	180814	1	09/10/2013 08:39	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 19-Sep-13

Client:	ABC Coke	**Client Sample ID:**	001
Project Name:	NPDES Permit Renewal 001	**Collection Date:**	9/4/2013 7:30:00 AM
Lab ID:	1309271-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625				**(E625)**				
Surr: Nitrobenzene-d5	70.3	41.6-120		%REC	180814	1	09/10/2013 08:39	YH
Surr: Phenol-d5	27.2	13-120		%REC	180814	1	09/10/2013 08:39	YH
Color (E110.2/SM2120 B)								
Color	125	25		Pt-Co	R251459	5	09/05/2013 18:00	MG
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	63.3	10.0		mg/L	R251695	1	09/10/2013 12:00	MG

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client LRS Work Order Number 1309271

Checklist completed by PL 9/5/13
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes ✓ No __ Not Present __

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.5 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by PT

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc

Date: 17-Sep-13

Client:	ABC Coke
Project:	NPDES Permit Renewal 001
Lab Order:	1309271

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1309271-001A	001	9/4/2013 7:30:00AM	Aqueous	PP-VOLATILES		09/04/2013	09/05/2013
1309271-001A	001	9/4/2013 7:30:00AM	Aqueous	PP-VOLATILES		09/04/2013	09/05/2013
1309271-001B	001	9/4/2013 7:30:00AM	Aqueous	Trace Elements by ICP/MS		09/09/2013	09/13/2013
1309271-001B	001	9/4/2013 7:30:00AM	Aqueous	Trace Elements by ICP/MS		09/09/2013	09/16/2013
1309271-001B	001	9/4/2013 7:30:00AM	Aqueous	TOTAL MERCURY		09/09/2013	09/09/2013
1309271-001C	001	9/4/2013 7:30:00AM	Aqueous	Color			09/05/2013
1309271-001D	001	9/4/2013 7:30:00AM	Aqueous	Chemical Oxygen Demand (COD)			09/10/2013
1309271-001D	001	9/4/2013 7:30:00AM	Aqueous	Total Organic Carbon (TOC)			09/11/2013
1309271-001E	001	9/4/2013 7:30:00AM	Aqueous	Nitrogen, Ammonia (as N)		09/10/2013	09/12/2013
1309271-001E	001	9/4/2013 7:30:00AM	Aqueous	Nitrogen, total Kjeldahl (TKN)		09/07/2013	09/10/2013
1309271-001E	001	9/4/2013 7:30:00AM	Aqueous	Total Organic Nitrogen			09/12/2013
1309271-001F	001	9/4/2013 7:30:00AM	Aqueous	PP-SEMIVOLATILE ORGANICS		09/09/2013	09/10/2013
1309271-001F	001	9/4/2013 7:30:00AM	Aqueous	PP-SEMIVOLATILE ORGANICS		09/09/2013	09/10/2013
1309271-001F	001	9/4/2013 7:30:00AM	Aqueous	Semivolatile Org. Comp. by GC/MS		09/09/2013	09/11/2013

Analytical Environmental Services, Inc **Date:** 19-Sep-13

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180695

Sample ID: **MB-180695** Client ID: Units: **ug/L** Prep Date: **09/04/2013** Run No: **251332**
SampleType: **MBLK** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **180695** Analysis Date: **09/04/2013** Seq No: **5272036**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
2-Chloroethyl vinyl ether	BRL	5.0									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Methylene chloride	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									

Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180695

Sample ID: **MB-180695**	Client ID:			Units: **ug/L**	Prep Date: **09/04/2013**	Run No: **251332**
SampleType: **MBLK**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**			BatchID: **180695**	Analysis Date: **09/04/2013**	Seq No: **5272036**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	48.05	0	50.00		96.1	64.6	123				
Surr: Dibromofluoromethane	49.01	0	50.00		98.0	76.6	133				
Surr: Toluene-d8	46.68	0	50.00		93.4	77.8	120				

Sample ID: **MB-180695**	Client ID:			Units: **ug/L**	Prep Date: **09/04/2013**	Run No: **251332**
SampleType: **MBLK**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**			BatchID: **180695**	Analysis Date: **09/04/2013**	Seq No: **5273493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dichlorodifluoromethane	BRL	10									

Sample ID: **LCS-180695**	Client ID:			Units: **ug/L**	Prep Date: **09/04/2013**	Run No: **251332**
SampleType: **LCS**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**			BatchID: **180695**	Analysis Date: **09/04/2013**	Seq No: **5272037**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	23.93	5.0	20.00		120	75	125				
1,1,2,2-Tetrachloroethane	19.00	5.0	20.00		95.0	61	140				
1,1,2-Trichloroethane	22.33	5.0	20.00		112	71	129				
1,1-Dichloroethane	23.54	5.0	20.00		118	73	128				
1,1-Dichloroethene	23.35	5.0	20.00		117	51	150				
1,2-Dichloroethane	22.65	5.0	20.00		113	68	132				
1,2-Dichloropropane	22.58	5.0	20.00		113	34	166				
2-Chloroethyl vinyl ether	45.16	5.0	40.00		113	1	224				
Acrolein	45.33	20	40.00		113	30	170				
Acrylonitrile	46.33	5.0	40.00		116	46	153				
Benzene	23.55	5.0	20.00		118	64	136				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180695

Sample ID: **LCS-180695**	Client ID:		Units: **ug/L**	Prep Date: **09/04/2013**	Run No: **251332**
SampleType: **LCS**	TestCode: **PRIORITY POLLUTANT-VOLATILES E624**		BatchID: **180695**	Analysis Date: **09/04/2013**	Seq No: **5272037**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromodichloromethane	22.37	5.0	20.00		112	66	135				
Bromoform	19.91	5.0	20.00		99.6	71	129				
Bromomethane	23.41	5.0	20.00		117	14	186				
Carbon tetrachloride	23.43	5.0	20.00		117	73	127				
Chlorobenzene	21.81	5.0	20.00		109	66	134				
Chloroethane	23.53	10	20.00		118	38	162				
Chloroform	21.61	5.0	20.00		108	68	133				
Chloromethane	22.94	10	20.00		115	1	204				
cis-1,3-Dichloropropene	21.35	5.0	20.00		107	24	176				
Dibromochloromethane	20.65	5.0	20.00		103	68	133				
Ethylbenzene	22.84	5.0	20.00		114	59	141				
Methylene chloride	22.44	5.0	20.00		112	61	140				
Tetrachloroethene	22.86	5.0	20.00		114	74	127				
Toluene	22.42	5.0	20.00		112	75	126				
trans-1,2-Dichloroethene	23.80	5.0	20.00		119	70	131				
trans-1,3-Dichloropropene	19.53	5.0	20.00		97.6	50	150				
Trichloroethene	24.29	5.0	20.00		121	67	134				
Trichlorofluoromethane	24.83	5.0	20.00		124	48	152				
Vinyl chloride	27.45	2.0	20.00		137	4	196				
Surr: 4-Bromofluorobenzene	52.31	0	50.00		105	64.6	123				
Surr: Dibromofluoromethane	50.55	0	50.00		101	76.6	133				
Surr: Toluene-d8	50.41	0	50.00		101	77.8	120				

Sample ID: **LCS-180695**	Client ID:		Units: **ug/L**	Prep Date: **09/04/2013**	Run No: **251332**
SampleType: **LCS**	TestCode: **PRIORITY POLLUTANT-VOLATILES E624**		BatchID: **180695**	Analysis Date: **09/04/2013**	Seq No: **5273498**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dichlorodifluoromethane	23.40	10	20.00		117	70	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180695

Sample ID: **1309030-001AMS** Client ID: Units: **ug/L** Prep Date: **09/04/2013** Run No: **251332**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **180695** Analysis Date: **09/04/2013** Seq No: **5273315**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.26	5.0	20.00		101	52	162				
1,1,2,2-Tetrachloroethane	23.39	5.0	20.00		117	46	157				
1,1,2-Trichloroethane	19.92	5.0	20.00		99.6	52	150				
1,1-Dichloroethane	19.75	5.0	20.00		98.8	59	155				
1,1-Dichloroethene	20.16	5.0	20.00		101	1	234				
1,2-Dichloroethane	19.89	5.0	20.00		99.4	49	155				
1,2-Dichloropropane	19.73	5.0	20.00		98.6	1	210				
2-Chloroethyl vinyl ether	39.45	5.0	40.00		98.6	1	305				
Acrolein	19.52	15	40.00		48.8	30	170				
Acrylonitrile	38.07	5.0	40.00		95.2	30	170				
Benzene	19.73	5.0	20.00		98.6	37	151				
Bromodichloromethane	19.17	5.0	20.00		95.8	35	155				
Bromoform	17.67	5.0	20.00		88.4	45	169				
Bromomethane	20.88	5.0	20.00		104	1	242				
Carbon tetrachloride	18.57	5.0	20.00		92.8	70	140				
Chlorobenzene	19.32	5.0	20.00		96.6	34	160				
Chloroethane	21.17	10	20.00		106	14	230				
Chloroform	24.00	5.0	20.00	8.380	78.1	51	138				
Chloromethane	14.11	10	20.00		70.6	1	273				
cis-1,3-Dichloropropene	17.66	5.0	20.00		88.3	1	227				
Dibromochloromethane	18.52	5.0	20.00		92.6	53	149				
Ethylbenzene	20.88	5.0	20.00		104	37	162				
Methylene chloride	18.19	5.0	20.00		91.0	1	221				
Tetrachloroethene	25.01	5.0	20.00	3.790	106	64	148				
Toluene	19.87	5.0	20.00		99.4	47	150				
trans-1,2-Dichloroethene	19.82	5.0	20.00		99.1	54	156				
trans-1,3-Dichloropropene	16.55	5.0	20.00		82.8	17	183				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180695

Sample ID: **1309030-001AMS**	Client ID:		Units: **ug/L**	Prep Date: **09/04/2013**	Run No: **251332**
SampleType: **MS**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**		BatchID: **180695**	Analysis Date: **09/04/2013**	Seq No: **5273315**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	20.18	5.0	20.00		101	71	157				
Trichlorofluoromethane	22.24	5.0	20.00		111	17	181				
Vinyl chloride	23.41	2.0	20.00		117	1	251				
Surr: 4-Bromofluorobenzene	48.90	0	50.00		97.8	64.6	123				
Surr: Dibromofluoromethane	47.61	0	50.00		95.2	76.6	133				
Surr: Toluene-d8	47.38	0	50.00		94.8	77.8	120				

Sample ID: **1309030-001AMSD**	Client ID:		Units: **ug/L**	Prep Date: **09/04/2013**	Run No: **251332**
SampleType: **MSD**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**		BatchID: **180695**	Analysis Date: **09/05/2013**	Seq No: **5273317**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.70	5.0	20.00		93.5	52	162	20.26	8.01	23	
1,1,2,2-Tetrachloroethane	19.25	5.0	20.00		96.2	46	157	23.39	19.4	37	
1,1,2-Trichloroethane	18.95	5.0	20.00		94.8	52	150	19.92	4.99	27.5	
1,1-Dichloroethane	17.39	5.0	20.00		87.0	59	155	19.75	12.7	25.5	
1,1-Dichloroethene	17.24	5.0	20.00		86.2	1	234	20.16	15.6	45.5	
1,2-Dichloroethane	18.84	5.0	20.00		94.2	49	155	19.89	5.42	30	
1,2-Dichloropropane	18.48	5.0	20.00		92.4	1	210	19.73	6.54	69	
2-Chloroethyl vinyl ether	36.96	5.0	40.00		92.4	1	305	39.45	6.52	130	
Acrolein	19.34	15	40.00		48.4	30	170	19.52	0.926	100	
Acrylonitrile	34.01	5.0	40.00		85.0	30	170	38.07	11.3	50	
Benzene	18.16	5.0	20.00		90.8	37	151	19.73	8.29	34.5	
Bromodichloromethane	18.11	5.0	20.00		90.6	35	155	19.17	5.69	32	
Bromoform	16.46	5.0	20.00		82.3	45	169	17.67	7.09	27	
Bromomethane	17.41	5.0	20.00		87.0	1	242	20.88	18.1	89.5	
Carbon tetrachloride	17.86	5.0	20.00		89.3	70	140	18.57	3.90	26	
Chlorobenzene	18.06	5.0	20.00		90.3	34	160	19.32	6.74	31.5	
Chloroethane	17.21	10	20.00		86.0	14	230	21.17	20.6	57	

Qualifiers:
- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180695

Sample ID: **1309030-001AMSD** Client ID:
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-VOLATILES E624**
Units: **ug/L** Prep Date: **09/04/2013** Run No: **251332**
BatchID: **180695** Analysis Date: **09/05/2013** Seq No: **5273317**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloroform	21.28	5.0	20.00	8.380	64.5	51	138	24.00	12.0	30.5	
Chloromethane	12.86	10	20.00		64.3	1	273	14.11	9.27	99	
cis-1,3-Dichloropropene	14.91	5.0	20.00		74.6	1	227	17.66	16.9	79	
Dibromochloromethane	17.46	5.0	20.00		87.3	53	149	18.52	5.89	30.5	
Ethylbenzene	18.88	5.0	20.00		94.4	37	162	20.88	10.1	37.5	
Methylene chloride	16.02	5.0	20.00		80.1	1	221	18.19	12.7	37	
Tetrachloroethene	22.52	5.0	20.00	3.790	93.6	64	148	25.01	10.5	25	
Toluene	18.42	5.0	20.00		92.1	47	150	19.87	7.57	24	
trans-1,2-Dichloroethene	16.78	5.0	20.00		83.9	54	156	19.82	16.6	28.5	
trans-1,3-Dichloropropene	14.77	5.0	20.00		73.8	17	183	16.55	11.4	52	
Trichloroethene	18.62	5.0	20.00		93.1	71	157	20.18	8.04	33	
Trichlorofluoromethane	19.04	5.0	20.00		95.2	17	181	22.24	15.5	50	
Vinyl chloride	20.52	2.0	20.00		103	1	251	23.41	13.2	100	
Surr: 4-Bromofluorobenzene	50.21	0	50.00		100	64.6	123	48.90	0	0	
Surr: Dibromofluoromethane	49.10	0	50.00		98.2	76.6	133	47.61	0	0	
Surr: Toluene-d8	49.45	0	50.00		98.9	77.8	120	47.38	0	0	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180797

Sample ID: **MB-180797**	Client ID:	Units: **ug/L**	Prep Date: **09/06/2013**	Run No: **251914**
SampleType: **MBLK**	TestCode: **Trace Elements by ICP/MS E200.8**	BatchID: **180797**	Analysis Date: **09/09/2013**	Seq No: **5286665**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	5.00									
Arsenic	BRL	5.00									
Beryllium	BRL	1.00									
Cadmium	BRL	0.700									
Chromium	BRL	5.00									
Copper	BRL	5.00									
Lead	BRL	1.00									
Nickel	BRL	5.00									
Selenium	BRL	5.00									
Silver	BRL	1.00									
Thallium	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-180797**	Client ID:	Units: **ug/L**	Prep Date: **09/09/2013**	Run No: **251914**
SampleType: **LCS**	TestCode: **Trace Elements by ICP/MS E200.8**	BatchID: **180797**	Analysis Date: **09/09/2013**	Seq No: **5286662**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	93.32	5.00	100.0	0.1647	93.2	85	115				
Arsenic	91.44	5.00	100.0		91.4	85	115				
Beryllium	106.2	1.00	100.0		106	85	115				
Cadmium	95.85	0.700	100.0	0.05826	95.8	85	115				
Copper	87.47	5.00	100.0		87.5	85	115				
Lead	99.78	1.00	100.0		99.8	85	115				
Nickel	89.76	5.00	100.0	0.1753	89.6	85	115				
Selenium	105.7	5.00	100.0		106	85	115				
Silver	9.728	1.00	10.00		97.3	85	115				
Thallium	93.56	1.00	100.0	0.8110	92.7	85	115				
Zinc	95.05	10.0	100.0		95.1	85	115				

Qualifiers:
- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180797

Sample ID: **LCS-180797**	Client ID:				Units: **ug/L**		Prep Date: **09/09/2013**		Run No: **251914**
SampleType: **LCS**	TestCode: **Trace Elements by ICP/MS** **E200.8**				BatchID: **180797**		Analysis Date: **09/16/2013**		Seq No: **5289422**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	91.16	5.00	100.0		91.2	85	115				

Sample ID: **1309408-004AMS**	Client ID:				Units: **ug/L**		Prep Date: **09/09/2013**		Run No: **251914**
SampleType: **MS**	TestCode: **Trace Elements by ICP/MS** **E200.8**				BatchID: **180797**		Analysis Date: **09/09/2013**		Seq No: **5286673**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	94.86	5.00	100.0	0.6645	94.2	70	130				
Arsenic	90.73	5.00	100.0	0.6674	90.1	70	130				
Beryllium	108.7	1.00	100.0		109	70	130				
Cadmium	94.63	0.700	100.0		94.6	70	130				
Chromium	85.31	5.00	100.0	0.3723	84.9	70	130				
Copper	94.60	5.00	100.0	7.826	86.8	70	130				
Lead	101.6	1.00	100.0		102	70	130				
Nickel	110.6	5.00	100.0	22.50	88.1	70	130				
Selenium	101.2	5.00	100.0	1.283	99.9	70	130				
Silver	9.361	1.00	10.00		93.6	70	130				
Thallium	99.20	1.00	100.0	0.4261	98.8	70	130				
Zinc	88.88	10.0	100.0		88.9	70	130				

Sample ID: **1309408-004AMSD**	Client ID:				Units: **ug/L**		Prep Date: **09/09/2013**		Run No: **251914**
SampleType: **MSD**	TestCode: **Trace Elements by ICP/MS** **E200.8**				BatchID: **180797**		Analysis Date: **09/09/2013**		Seq No: **5286677**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	93.42	5.00	100.0	0.6645	92.8	70	130	94.86	1.53	20	
Arsenic	89.52	5.00	100.0	0.6674	88.9	70	130	90.73	1.34	20	
Beryllium	107.4	1.00	100.0		107	70	130	108.7	1.24	20	
Cadmium	93.01	0.700	100.0		93.0	70	130	94.63	1.73	20	
Chromium	84.71	5.00	100.0	0.3723	84.3	70	130	85.31	0.714	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180797

Sample ID: **1309408-004AMSD** Client ID:
SampleType: **MSD** TestCode: **Trace Elements by ICP/MS E200.8**
Units: **ug/L** Prep Date: **09/09/2013** Run No: **251914**
BatchID: **180797** Analysis Date: **09/09/2013** Seq No: **5286677**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	92.72	5.00	100.0	7.826	84.9	70	130	94.60	2.00	20	
Lead	100.00	1.00	100.0		100.0	70	130	101.6	1.60	20	
Nickel	108.1	5.00	100.0	22.50	85.6	70	130	110.6	2.31	20	
Selenium	100.8	5.00	100.0	1.283	99.5	70	130	101.2	0.365	20	
Silver	9.259	1.00	10.00		92.6	70	130	9.361	1.10	20	
Thallium	103.1	1.00	100.0	0.4261	103	70	130	99.20	3.89	20	
Zinc	99.68	10.0	100.0		99.7	70	130	88.88	11.5	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180810

Sample ID: **MB-180810**	Client ID:				Units: **mg/L**		Prep Date: **09/09/2013**		Run No: **251546**
SampleType: **MBLK**	TestCode: **Total Mercury E245.1**				BatchID: **180810**		Analysis Date: **09/09/2013**		Seq No: **5277336**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-180810**	Client ID:				Units: **mg/L**		Prep Date: **09/09/2013**		Run No: **251546**
SampleType: **LCS**	TestCode: **Total Mercury E245.1**				BatchID: **180810**		Analysis Date: **09/09/2013**		Seq No: **5277337**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004770	0.00020	0.0050		95.4	85	115				

Sample ID: **1309323-014BMS**	Client ID:				Units: **mg/L**		Prep Date: **09/09/2013**		Run No: **251546**
SampleType: **MS**	TestCode: **Total Mercury E245.1**				BatchID: **180810**		Analysis Date: **09/09/2013**		Seq No: **5277340**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004818	0.00020	0.0050		96.4	70	130				

Sample ID: **1309323-014BMSD**	Client ID:				Units: **mg/L**		Prep Date: **09/09/2013**		Run No: **251546**
SampleType: **MSD**	TestCode: **Total Mercury E245.1**				BatchID: **180810**		Analysis Date: **09/09/2013**		Seq No: **5277342**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004765	0.00020	0.0050		95.3	70	130	0.004818	1.09	20	

Qualifiers:					
	>	Greater than Result value	<	Less than Result value	B Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix	

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180814

Sample ID: **MB-180814** Client ID: Units: **ug/L** Prep Date: **09/09/2013** Run No: **251622**
SampleType: **MBLK** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **180814** Analysis Date: **09/09/2013** Seq No: **5278605**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	BRL	10									
1,2-Dichlorobenzene	BRL	10									
1,2-Diphenylhydrazine	BRL	10									
1,3-Dichlorobenzene	BRL	10									
1,4-Dichlorobenzene	BRL	10									
2,4,6-Trichlorophenol	BRL	10									
2,4-Dichlorophenol	BRL	10									
2,4-Dimethylphenol	BRL	10									
2,4-Dinitrophenol	BRL	25									
2,4-Dinitrotoluene	BRL	10									
2,6-Dinitrotoluene	BRL	10									
2-Chloronaphthalene	BRL	10									
2-Chlorophenol	BRL	10									
2-Nitrophenol	BRL	10									
3,3'-Dichlorobenzidine	BRL	10									
4,6-Dinitro-2-methylphenol	BRL	20									
4-Bromophenyl phenyl ether	BRL	10									
4-Chloro-3-methylphenol	BRL	10									
4-Chlorophenyl phenyl ether	BRL	10									
4-Nitrophenol	BRL	25									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzidine	BRL	80									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180814

Sample ID: **MB-180814** Client ID: Units: **ug/L** Prep Date: **09/09/2013** Run No: **251622**
SampleType: **MBLK** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **180814** Analysis Date: **09/09/2013** Seq No: **5278605**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Bis(2-chloroethoxy)methane	BRL	10									
Bis(2-chloroethyl)ether	BRL	10									
Bis(2-chloroisopropyl)ether	BRL	10									
Bis(2-ethylhexyl)phthalate	BRL	10									
Butyl benzyl phthalate	BRL	10									
Chrysene	BRL	10									
Di-n-butyl phthalate	BRL	10									
Di-n-octyl phthalate	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Diethyl phthalate	BRL	10									
Dimethyl phthalate	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Hexachlorobenzene	BRL	10									
Hexachlorobutadiene	BRL	10									
Hexachlorocyclopentadiene	BRL	10									
Hexachloroethane	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Isophorone	BRL	10									
N-Nitrosodi-n-propylamine	BRL	10									
N-Nitrosodimethylamine	BRL	10									
N-Nitrosodiphenylamine	BRL	10									
Naphthalene	BRL	10									
Nitrobenzene	BRL	10									
Pentachlorophenol	BRL	25									

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180814

Sample ID: **MB-180814**	Client ID:		Units: **ug/L**	Prep Date: **09/09/2013**	Run No: **251622**
SampleType: **MBLK**	TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**		BatchID: **180814**	Analysis Date: **09/09/2013**	Seq No: **5278605**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenanthrene	BRL	10									
Phenol	BRL	10									
Pyrene	BRL	10									
Surr: 2,4,6-Tribromophenol	42.32	0	50.00		84.6	50.9	150				
Surr: 2-Fluorobiphenyl	20.38	0	25.00		81.5	50.7	121				
Surr: 2-Fluorophenol	24.46	0	50.00		48.9	25.6	120				
Surr: 4-Terphenyl-d14	24.18	0	25.00		96.7	44	147				
Surr: Nitrobenzene-d5	16.74	0	25.00		67.0	41.6	120				
Surr: Phenol-d5	13.91	0	50.00		27.8	13	120				

Sample ID: **MB-180814**	Client ID:		Units: **ug/L**	Prep Date: **09/09/2013**	Run No: **251740**
SampleType: **MBLK**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **180814**	Analysis Date: **09/11/2013**	Seq No: **5280866**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(chloromethyl) ether	BRL	100									N

Sample ID: **LCS-180814**	Client ID:		Units: **ug/L**	Prep Date: **09/09/2013**	Run No: **251622**
SampleType: **LCS**	TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**		BatchID: **180814**	Analysis Date: **09/09/2013**	Seq No: **5278606**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	36.33	10	50.00		72.7	57.3	129.2				
1,2-Dichlorobenzene	34.90	10	50.00		69.8	48.6	112				
1,2-Diphenylhydrazine	47.96	10	100.0		48.0	35.4	120				
1,3-Dichlorobenzene	34.48	10	50.00		69.0	16.7	153.9				
1,4-Dichlorobenzene	33.78	10	50.00		67.6	37.3	105.7				
2,4,6-Trichlorophenol	48.47	10	50.00		96.9	52.4	129.2				
2,4-Dichlorophenol	39.12	10	50.00		78.2	52.5	121.7				
2,4-Dimethylphenol	40.94	10	50.00		81.9	41.8	109				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180814

Sample ID: **LCS-180814** Client ID: Units: **ug/L** Prep Date: **09/09/2013** Run No: **251622**
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **180814** Analysis Date: **09/09/2013** Seq No: **5278606**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dinitrophenol	40.18	25	50.00		80.4	1	172.9				
2,4-Dinitrotoluene	50.06	10	50.00		100	47.5	126.9				
2,6-Dinitrotoluene	55.57	10	50.00		111	68.1	136.7				
2-Chloronaphthalene	42.68	10	50.00		85.4	64.5	113.5				
2-Chlorophenol	44.22	10	50.00		88.4	36.2	120.4				
2-Nitrophenol	39.83	10	50.00		79.7	45	166.7				
3,3'-Dichlorobenzidine	47.37	10	50.00		94.7	8.2	212.5				
4,6-Dinitro-2-methylphenol	54.70	20	50.00		109	53	100				S
4-Bromophenyl phenyl ether	47.34	10	50.00		94.7	64.9	114.4				
4-Chloro-3-methylphenol	44.48	10	50.00		89.0	40.8	127.9				
4-Chlorophenyl phenyl ether	51.19	10	50.00		102	38.4	144.7				
4-Nitrophenol	26.94	25	50.00		53.9	13	106.5				
Acenaphthene	49.02	10	50.00		98.0	60.1	132.3				
Acenaphthylene	51.78	10	50.00		104	53.5	126				
Anthracene	51.32	10	50.00		103	43.4	118				
Benz(a)anthracene	49.78	10	50.00		99.6	41.8	133				
Benzidine	BRL	80	100.0		26.7	1	120				
Benzo(a)pyrene	44.86	10	50.00		89.7	31.7	148				
Benzo(b)fluoranthene	42.63	10	50.00		85.3	42	140.4				
Benzo(g,h,i)perylene	52.24	10	50.00		104	1	195				
Benzo(k)fluoranthene	50.05	10	50.00		100	25.2	145.7				
Bis(2-chloroethoxy)methane	40.38	10	50.00		80.8	49.2	164.7				
Bis(2-chloroethyl)ether	35.95	10	50.00		71.9	42.9	126				
Bis(2-chloroisopropyl)ether	43.91	10	50.00		87.8	62.8	138.6				
Bis(2-ethylhexyl)phthalate	48.32	10	50.00		96.6	28.9	136.88				
Butyl benzyl phthalate	43.67	10	50.00		87.3	1	139.9				
Chrysene	41.94	10	50.00		83.9	44.1	139.9				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180814

Sample ID: **LCS-180814** Client ID: Units: **ug/L** Prep Date: **09/09/2013** Run No: **251622**
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **180814** Analysis Date: **09/09/2013** Seq No: **5278606**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Di-n-butyl phthalate	49.22	10	50.00		98.4	8.4	111				
Di-n-octyl phthalate	45.82	10	50.00		91.6	18.6	131.8				
Dibenz(a,h)anthracene	51.94	10	50.00		104	1	199.7				
Diethyl phthalate	47.95	10	50.00		95.9	1	100				
Dimethyl phthalate	47.16	10	50.00		94.3	1	100				
Fluoranthene	51.22	10	50.00		102	42.9	121.3				
Fluorene	52.08	10	50.00		104	71.6	108.4				
Hexachlorobenzene	45.62	10	50.00		91.2	7.8	141.5				
Hexachlorobutadiene	34.92	10	50.00		69.8	37.8	102.2				
Hexachlorocyclopentadiene	63.04	10	50.00		126	35.8	153				
Hexachloroethane	34.48	10	50.00		69.0	55.2	100				
Indeno(1,2,3-cd)pyrene	51.98	10	50.00		104	1	150.9				
Isophorone	36.65	10	50.00		73.3	46.6	180.2				
N-Nitrosodi-n-propylamine	42.54	10	50.00		85.1	13.6	197.9				
N-Nitrosodimethylamine	28.88	10	50.00		57.8	33.1	120				
N-Nitrosodiphenylamine	23.44	10	50.00		46.9	33.4	120				
Naphthalene	42.80	10	50.00		85.6	35.6	119.6				
Nitrobenzene	43.50	10	50.00		87.0	54.3	157.6				
Pentachlorophenol	42.77	25	50.00		85.5	38.1	151.8				
Phenanthrene	52.62	10	50.00		105	65.2	108.7				
Phenol	25.98	10	50.00		52.0	16.6	100				
Pyrene	44.76	10	50.00		89.5	69.6	100				
Surr: 2,4,6-Tribromophenol	53.38	0	50.00		107	50.9	150				
Surr: 2-Fluorobiphenyl	25.60	0	25.00		102	50.7	121				
Surr: 2-Fluorophenol	32.13	0	50.00		64.3	25.6	120				
Surr: 4-Terphenyl-d14	23.67	0	25.00		94.7	44	147				
Surr: Nitrobenzene-d5	23.52	0	25.00		94.1	41.6	120				

Qualifiers:
- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180814

Sample ID: **LCS-180814**	Client ID:		Units: **ug/L**	Prep Date: **09/09/2013**	Run No: **251622**
SampleType: **LCS**	TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**		BatchID: **180814**	Analysis Date: **09/09/2013**	Seq No: **5278606**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: Phenol-d5	21.76	0	50.00		43.5	13	120				

Sample ID: **1309271-001FMS**	Client ID: **001**		Units: **ug/L**	Prep Date: **09/09/2013**	Run No: **251622**
SampleType: **MS**	TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**		BatchID: **180814**	Analysis Date: **09/10/2013**	Seq No: **5279027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	65.70	50	100.0		65.7	44	142				
1,2-Dichlorobenzene	61.45	50	100.0		61.4	32	129				
1,2-Diphenylhydrazine	77.75	50	200.0		38.9	20.3	120				
1,3-Dichlorobenzene	54.80	50	100.0		54.8	1	172				
1,4-Dichlorobenzene	57.40	50	100.0		57.4	20	124				
2,4,6-Trichlorophenol	80.40	50	100.0		80.4	37	144				
2,4-Dichlorophenol	66.10	50	100.0		66.1	39	135				
2,4-Dimethylphenol	59.00	50	100.0		59.0	32	119				
2,4-Dinitrophenol	BRL	130	100.0		109	1	191				
2,4-Dinitrotoluene	76.45	50	100.0		76.4	39	139				
2,6-Dinitrotoluene	77.05	50	100.0		77.0	50	158				
2-Chloronaphthalene	70.60	50	100.0		70.6	60	118				
2-Chlorophenol	57.30	50	100.0		57.3	23	134				
2-Nitrophenol	60.85	50	100.0		60.8	29	182				
3,3'-Dichlorobenzidine	BRL	50	100.0		16.6	1	262				
4,6-Dinitro-2-methylphenol	BRL	100	100.0		63.8	1	181				
4-Bromophenyl phenyl ether	80.10	50	100.0		80.1	53	127				
4-Chloro-3-methylphenol	71.75	50	100.0		71.8	22	147				
4-Chlorophenyl phenyl ether	84.65	50	100.0		84.6	25	158				
4-Nitrophenol	BRL	130	100.0		52.2	1	132				
Acenaphthene	84.50	50	100.0		84.5	47	145				
Acenaphthylene	83.30	50	100.0		83.3	33	145				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 19-Sep-13

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180814

Sample ID: **1309271-001FMS** Client ID: **001** Units: **ug/L** Prep Date: **09/09/2013** Run No: **251622**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **180814** Analysis Date: **09/10/2013** Seq No: **5279027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Anthracene	82.40	50	100.0		82.4	27	133				
Benz(a)anthracene	92.10	50	100.0		92.1	33	143				
Benzidine	BRL	400	200.0		0	1	120				S
Benzo(a)pyrene	73.25	50	100.0		73.2	17	163				
Benzo(b)fluoranthene	84.05	50	100.0		84.0	24	159				
Benzo(g,h,i)perylene	87.95	50	100.0		88.0	1	219				
Benzo(k)fluoranthene	92.55	50	100.0		92.6	11	162				
Bis(2-chloroethoxy)methane	66.70	50	100.0		66.7	33	184				
Bis(2-chloroethyl)ether	57.15	50	100.0		57.2	12	158				
Bis(2-chloroisopropyl)ether	71.75	50	100.0		71.8	36	166				
Bis(2-ethylhexyl)phthalate	99.30	50	100.0	24.12	75.2	8	158				
Butyl benzyl phthalate	79.90	50	100.0		79.9	1	152				
Chrysene	85.90	50	100.0		85.9	17	168				
Di-n-butyl phthalate	85.30	50	100.0		85.3	1	118				
Di-n-octyl phthalate	77.05	50	100.0		77.0	4	146				
Dibenz(a,h)anthracene	77.80	50	100.0		77.8	1	227				
Diethyl phthalate	84.00	50	100.0		84.0	1	114				
Dimethyl phthalate	84.05	50	100.0		84.0	1	112				
Fluoranthene	88.75	50	100.0		88.8	26	137				
Fluorene	87.75	50	100.0		87.8	59	121				
Hexachlorobenzene	81.00	50	100.0		81.0	1	152				
Hexachlorobutadiene	65.90	50	100.0		65.9	24	116				
Hexachlorocyclopentadiene	52.50	50	100.0		52.5	1	140				
Hexachloroethane	58.80	50	100.0		58.8	40	113				
Indeno(1,2,3-cd)pyrene	83.00	50	100.0		83.0	1	171				
Isophorone	61.15	50	100.0		61.2	21	196				
N-Nitrosodi-n-propylamine	66.40	50	100.0		66.4	1	230				

Qualifiers:
- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180814

Sample ID: **1309271-001FMS** Client ID: **001** Units: **ug/L** Prep Date: **09/09/2013** Run No: **251622**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **180814** Analysis Date: **09/10/2013** Seq No: **5279027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	BRL	50	100.0		45.8	17.8	120				
N-Nitrosodiphenylamine	BRL	50	100.0		35.9	17.1	120				
Naphthalene	69.85	50	100.0		69.8	21	133				
Nitrobenzene	65.20	50	100.0		65.2	35	180				
Pentachlorophenol	BRL	130	100.0		88.2	14	176				
Phenanthrene	87.70	50	100.0		87.7	54	120				
Phenol	BRL	50	100.0		35.9	5	112				
Pyrene	83.80	50	100.0		83.8	52	115				
Surr: 2,4,6-Tribromophenol	80.20	0	100.0		80.2	50.9	150				
Surr: 2-Fluorobiphenyl	41.20	0	50.00		82.4	50.7	121				
Surr: 2-Fluorophenol	46.15	0	100.0		46.2	25.6	120				
Surr: 4-Terphenyl-d14	43.90	0	50.00		87.8	44	147				
Surr: Nitrobenzene-d5	30.35	0	50.00		60.7	41.6	120				
Surr: Phenol-d5	32.85	0	100.0		32.8	13	120				

Sample ID: **1309271-001FMSD** Client ID: **001** Units: **ug/L** Prep Date: **09/09/2013** Run No: **251622**
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **180814** Analysis Date: **09/10/2013** Seq No: **5279028**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	53.40	50	100.0		53.4	44	142	65.70	20.7	28.1	
1,2-Dichlorobenzene	53.25	50	100.0		53.2	32	129	61.45	14.3	30.9	
1,2-Diphenylhydrazine	60.20	50	200.0		30.1	20.3	120	77.75	25.4	30.4	
1,3-Dichlorobenzene	BRL	50	100.0		47.0	1	172	54.80	0	41.7	
1,4-Dichlorobenzene	50.35	50	100.0		50.4	20	124	57.40	13.1	32.1	
2,4,6-Trichlorophenol	63.95	50	100.0		64.0	37	144	80.40	22.8	31.7	
2,4-Dichlorophenol	BRL	50	100.0		44.0	39	135	66.10	0	26.4	
2,4-Dimethylphenol	BRL	50	100.0		39.7	32	119	59.00	0	26.1	
2,4-Dinitrophenol	BRL	130	100.0		98.2	1	191	109.1	0	49.8	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180814

Sample ID: **1309271-001FMSD** Client ID: **001** Units: **ug/L** Prep Date: **09/09/2013** Run No: **251622**
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **180814** Analysis Date: **09/10/2013** Seq No: **5279028**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dinitrotoluene	57.75	50	100.0		57.8	39	139	76.45	27.9	21.8	R
2,6-Dinitrotoluene	61.00	50	100.0		61.0	50	158	77.05	23.3	29.6	
2-Chloronaphthalene	55.35	50	100.0		55.4	60	118	70.60	24.2	13	SR
2-Chlorophenol	BRL	50	100.0		46.2	23	134	57.30	0	28.7	
2-Nitrophenol	BRL	50	100.0		46.2	29	182	60.85	0	35.2	
3,3'-Dichlorobenzidine	BRL	50	100.0		0	1	262	16.55	0	71.4	S
4,6-Dinitro-2-methylphenol	BRL	100	100.0		42.4	1	181	63.75	0	93.2	
4-Bromophenyl phenyl ether	61.65	50	100.0		61.6	53	127	80.10	26.0	23	R
4-Chloro-3-methylphenol	56.85	50	100.0		56.8	22	147	71.75	23.2	37.2	
4-Chlorophenyl phenyl ether	65.70	50	100.0		65.7	25	158	84.65	25.2	33.4	
4-Nitrophenol	BRL	130	100.0		42.8	1	132	52.25	0	47.2	
Acenaphthene	66.90	50	100.0		66.9	47	145	84.50	23.2	27.6	
Acenaphthylene	65.60	50	100.0		65.6	33	145	83.30	23.8	40.2	
Anthracene	64.00	50	100.0		64.0	27	133	82.40	25.1	32	
Benz(a)anthracene	71.95	50	100.0		72.0	33	143	92.10	24.6	27.6	
Benzidine	BRL	400	200.0		0	1	120	0	0	50	S
Benzo(a)pyrene	56.25	50	100.0		56.2	17	163	73.25	26.3	39	
Benzo(b)fluoranthene	63.85	50	100.0		63.8	24	159	84.05	27.3	38.8	
Benzo(g,h,i)perylene	66.80	50	100.0		66.8	1	219	87.95	27.3	58.9	
Benzo(k)fluoranthene	70.30	50	100.0		70.3	11	162	92.55	27.3	32.3	
Bis(2-chloroethoxy)methane	53.05	50	100.0		53.0	33	184	66.70	22.8	34.5	
Bis(2-chloroethyl)ether	BRL	50	100.0		47.0	12	158	57.15	0	55	
Bis(2-chloroisopropyl)ether	58.60	50	100.0		58.6	36	166	71.75	20.2	46.3	
Bis(2-ethylhexyl)phthalate	77.60	50	100.0	24.12	53.5	8	158	99.30	24.5	41.1	
Butyl benzyl phthalate	63.35	50	100.0		63.4	1	152	79.90	23.1	23.4	
Chrysene	66.20	50	100.0		66.2	17	168	85.90	25.9	48.3	
Di-n-butyl phthalate	65.95	50	100.0		66.0	1	118	85.30	25.6	16.7	R

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: 180814

Sample ID: **1309271-001FMSD** Client ID: **001** Units: **ug/L** Prep Date: **09/09/2013** Run No: **251622**
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **180814** Analysis Date: **09/10/2013** Seq No: **5279028**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Di-n-octyl phthalate	60.20	50	100.0		60.2	4	146	77.05	24.6	31.4	
Dibenz(a,h)anthracene	60.80	50	100.0		60.8	1	227	77.80	24.5	70	
Diethyl phthalate	65.65	50	100.0		65.6	1	114	84.00	24.5	26.5	
Dimethyl phthalate	65.60	50	100.0		65.6	1	112	84.05	24.7	23.2	R
Fluoranthene	70.30	50	100.0		70.3	26	137	88.75	23.2	32.8	
Fluorene	68.30	50	100.0		68.3	59	121	87.75	24.9	20.7	R
Hexachlorobenzene	64.60	50	100.0		64.6	1	152	81.00	22.5	24.9	
Hexachlorobutadiene	52.45	50	100.0		52.4	24	116	65.90	22.7	26.3	
Hexachlorocyclopentadiene	BRL	50	100.0		36.2	1	140	52.50	0	35.6	
Hexachloroethane	BRL	50	100.0		49.2	40	113	58.80	0	24.5	
Indeno(1,2,3-cd)pyrene	64.05	50	100.0		64.0	1	171	83.00	25.8	44.6	
Isophorone	BRL	50	100.0		48.6	21	196	61.15	0	63.3	
N-Nitrosodi-n-propylamine	53.20	50	100.0		53.2	1	230	66.40	22.1	55.4	
N-Nitrosodimethylamine	BRL	50	100.0		39.4	17.8	120	45.75	0	29.9	
N-Nitrosodiphenylamine	BRL	50	100.0		26.7	17.1	120	35.90	0	20	
Naphthalene	55.15	50	100.0		55.2	21	133	69.85	23.5	30.1	
Nitrobenzene	BRL	50	100.0		49.4	35	180	65.20	0	39.3	
Pentachlorophenol	BRL	130	100.0		73.6	14	176	88.20	0	48.9	
Phenanthrene	69.20	50	100.0		69.2	54	120	87.70	23.6	20.6	R
Phenol	BRL	50	100.0		30.8	5	112	35.90	0	22.6	
Pyrene	65.90	50	100.0		65.9	52	115	83.80	23.9	25.2	
Surr: 2,4,6-Tribromophenol	63.70	0	100.0		63.7	50.9	150	80.20	0	0	
Surr: 2-Fluorobiphenyl	32.55	0	50.00		65.1	50.7	121	41.20	0	0	
Surr: 2-Fluorophenol	41.95	0	100.0		42.0	25.6	120	46.15	0	0	
Surr: 4-Terphenyl-d14	35.50	0	50.00		71.0	44	147	43.90	0	0	
Surr: Nitrobenzene-d5	25.65	0	50.00		51.3	41.6	120	30.35	0	0	
Surr: Phenol-d5	29.00	0	100.0		29.0	13	120	32.85	0	0	

Qualifiers:
- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: R251459

Sample ID: **MB-R251459**	Client ID:				Units: **Pt-Co**		Prep Date:		Run No: **251459**
SampleType: **MBLK**	TestCode: **Color (E110.2/SM2120 B)**				BatchID: **R251459**		Analysis Date: **09/05/2013**		Seq No: **5274848**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Color	BRL	5									

Sample ID: **1309256-001ADUP**	Client ID:				Units: **Pt-Co**		Prep Date:		Run No: **251459**
SampleType: **DUP**	TestCode: **Color (E110.2/SM2120 B)**				BatchID: **R251459**		Analysis Date: **09/05/2013**		Seq No: **5274854**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Color	25.00	5						25.00	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: R251695

Sample ID: **MB-R251695**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **251695**
SampleType: **MBLK**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R251695**	Analysis Date: **09/10/2013**		Seq No: **5280144**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	BRL	10.0									

Sample ID: **LCS-R251695**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **251695**
SampleType: **LCS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R251695**	Analysis Date: **09/10/2013**		Seq No: **5280145**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	502.2	10.0	500.0		100	90	110				

Sample ID: **1309389-001CMS**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **251695**
SampleType: **MS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R251695**	Analysis Date: **09/10/2013**		Seq No: **5280147**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	365.9	12.5	375.0		97.6	90	110				

Sample ID: **1309582-001CMS**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **251695**
SampleType: **MS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R251695**	Analysis Date: **09/10/2013**		Seq No: **5280160**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	393.5	12.5	375.0	14.82	101	90	110				

Sample ID: **1309389-001CMSD**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **251695**
SampleType: **MSD**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R251695**	Analysis Date: **09/10/2013**		Seq No: **5280148**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	368.6	12.5	375.0		98.3	90	110	365.9	0.749	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 001
Workorder: 1309271

ANALYTICAL QC SUMMARY REPORT

BatchID: R251793

Sample ID: **MB-R251793**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **251793**	
SampleType: **MBLK**	TestCode: **T. Organic Carbon(TOC)(E415.1/SM5310B)**				BatchID: **R251793**	Analysis Date: **09/11/2013**		Seq No: **5282125**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.0									

Sample ID: **LCS-R251793**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **251793**	
SampleType: **LCS**	TestCode: **T. Organic Carbon(TOC)(E415.1/SM5310B)**				BatchID: **R251793**	Analysis Date: **09/11/2013**		Seq No: **5282121**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.21	1.0	25.00		105	90	110				

Sample ID: **1309475-002AMS**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **251793**	
SampleType: **MS**	TestCode: **T. Organic Carbon(TOC)(E415.1/SM5310B)**				BatchID: **R251793**	Analysis Date: **09/11/2013**		Seq No: **5282215**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.18	1.0	25.00	2.371	87.2	80	120				

Sample ID: **1309475-002AMSD**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **251793**	
SampleType: **MSD**	TestCode: **T. Organic Carbon(TOC)(E415.1/SM5310B)**				BatchID: **R251793**	Analysis Date: **09/11/2013**		Seq No: **5282218**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.70	1.0	25.00	2.371	97.3	80	120	24.18	9.91	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

LRS, Inc.

Laboratory Resources & Solutions, Inc.

163 5th Street
Ashville, AL 35953
(205) 683-6731

www.lab-resource.com

Analytical Data Report

CLIENT ABC Coke
P.O. Box 10246
Birmingham AL 35202

ATTENTION Tommy Pike

PROJECT ID NPDES Permit Renewal 002

LABORATORY REPORT NUMBER 1307O04

DATE August 08, 2013

Primary Data Review By

Nicole J Jessup

Nicole Jessup
Project Manager
Analytical Environmental Services
njessup@aesatlanta.com

Secondary Data Review By

Wayne T. Gaston

Wayne Gaston
Project Manager
Laboratory Resources & Solutions, Inc
wgaston@lab-resource.com

PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3785 Presidential Parkway, Atlanta, GA 30340
- AES is certified in the following. NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
  AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.
- These results relate only to the items tested This report may only be reproduced in full
- Local support services for this project are provided by Laboratory Resources & Solutions, Inc (LRS). All questions regarding this report should be directed to LRS, Inc. at (205) 683-6731.

1320704

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Billing information:

LRS, Inc.
163 5th Street
Ashville, Alabama 35953
(205) 683 - 6731
wgaston@lab-resource.com

LRS Client Information:

ABC Coke
P.O. Box 10246
Birmingham, AL 35202

LRS Client: **Tommy Pike**

Project Name: **NPDES Permit Renewal 002**

City/State collected: Birmingham, Alabama

Client Project #:

Lab Project #:

Collected by: MLW

Site ID:

P.O.#:

Collected by(signature):

Packed on Ice N__ Y__

Rush? (LRS MUST be Notified)
_____Same Day .200%
___Next Day 100%
_____Two Day . 50%

Date Results Needed: STD

Email? __No__X_Yes
FAX? _X_No__ Yes

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	No of Cntrs	CBOD E405.1 (1-1L HDPE unpreserved)	COD E410.4, TOC E415.1, NO2/NO3 E353.2 (1-500mL HDPE H2SO4 pres	Res. Cl2 E330.5, TSS E160.2, Color E110.2 (2-1L HDPE nonpres)	**Total Metals-E200.7/200.8/245.1 (1-250mL HDPE HNO3 preserved)	***SVOC E625 (2-1L Amber glass unpreserved)	T.Org Nitrogen E350.2/351.2/353.2, T.Phos-E365.2 (1-500mL H2SO4 pres	Oil & Grease-E1664, T. Phenols E420.1 (3-1L H2SO4 preserved)	Total Cyanide E335.2 (1-250mL HDPE NaOH preserved)	***VOC E624 (3-40mL VOA HCL preserved)	Remarks/contaminant	Sample # (lab only)
002	Grab	Water	*****	7/29/13	1020	15	1	1	2	1	2	1	*	1	3	***see attached list	

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

LRS, Inc.
A Laboratory Service Provider
Phone: 205.683.6731
FAX: 205.594.7302

Laboratory:
Analytical Environmental Service
3785 Presidential Parkway
Atlanta GA 30340
Shipped Via: Fedex#: 1593-1249-6

3pt calibration: 7/29/13 @ 10:05
7.0 pH chk = 7.01 @ 26.2°

pH taken @ 7/29/13 @ 1016 / MLW
pH analysis — 7/29/13 @ 10 / MLW
pH = 7.90 @ 26.9°

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water SW-Stormwater OT- Other_____

*- Do not analyze for O&G *

pH_____ Temp_____

Remarks: **Metals - Fe,Mn,Sb,As,Be,Cd,Cr,Cu,Pb,Hg,Ni,Se,Ag,Tl,Zn-Metals**

Rainfall in Inches_____ Flow_____ Other_____

Relinquished by:(Signature)	Date	Time	Received by:(Signature)	Samples returned via: FedEx__ UPS__ Other_		Condition	(lab use only)
Relinquished by:(Signature)	Date	Time	Received by: (Signature)	Temp	Bottles Received:		
Relinquished by:(Signature)	Date	Time:	Received for lab by:(Signature)	Date: 7/30/13	Time 9:50	pH Checked:	NCF

Client signature implies acceptance of LRS Terms and Conditions www.lab-resource.com

Analytical Environmental Services, Inc. **Date:** *08-Aug-13*

CLIENT: ABC Coke
Project: NPDES Permit Renewal 002
Lab Order: 1307O04

CASE NARRATIVE

Total Residual Chlorine Analysis by Method E330.5:

Sample for Total Residual Chlorine analysis by Method E330.5 was received and analyzed outside of the holding time requirement of "immediate or 15 minutes".

Semi-Volatile Organics Analysis by Method 625:

LCS-179203 recovery for 4,6-dinitro-2-methylphenol was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Analytical Environmental Services, Inc.

Date: *08-Aug-13*

CLIENT: ABC Coke
Client Sample ID: 002
Project: NPDES Permit Renewal 002
Collection Date: 7/29/2013 10:20:00 AM
Lab ID: 1307O04-001
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
NITROGEN, AMMONIA (AS N) E350.1					**(E350.1)**		Analyst: **LAV**
Nitrogen, Ammonia (As N)	0.562	0.200		mg/L	179366	1	8/6/2013 4:25 PM
NITROGEN, NITRATE-NITRITE (AS N) E353.2							Analyst: **TL**
Nitrogen, Nitrate-Nitrite (as N)	0.517	0.050		mg/L		1	8/1/2013 3:00 PM
TOTAL PHOSPHORUS E365.1					**(E365.1)**		Analyst: **LAV**
Phosphorus, Total (As P)	0.557	0 050		mg/L	179263	1	8/5/2013 10:32 AM
T. ORGANIC CARBON(TOC)(E415.1/SM5310B)							Analyst: **GAR**
Organic Carbon, Total	2.7	1 0		mg/L		1	7/31/2013 12.39 PM
TOTAL ORGANIC NITROGEN SM4500-N C							Analyst: **TL**
Nitrogen, Organic	1.18	0.500		mg/L		1	8/6/2013 12:00 AM
TRACE ELEMENTS BY ICP/MS E200.8					**(E200.2)**		Analyst: **TAA**
Antimony	BRL	5.00		ug/L	179234	1	8/6/2013 10:21 PM
Arsenic	6.24	5.00		ug/L	179234	1	8/6/2013 10:21 PM
Beryllium	BRL	1.00		ug/L	179234	1	8/6/2013 10:21 PM
Cadmium	BRL	0.700		ug/L	179234	1	8/6/2013 10:21 PM
Chromium	BRL	5.00		ug/L	179234	1	8/6/2013 10:21 PM
Copper	BRL	5.00		ug/L	179234	1	8/6/2013 10:21 PM
Iron	241	100		ug/L	179234	1	8/7/2013 2:05 PM
Lead	BRL	1.00		ug/L	179234	1	8/6/2013 10:21 PM
Manganese	400	5.00		ug/L	179234	1	8/7/2013 2:05 PM
Nickel	BRL	5 00		ug/L	179234	1	8/6/2013 10:21 PM
Selenium	BRL	5 00		ug/L	179234	1	8/6/2013 10:21 PM
Silver	BRL	1.00		ug/L	179234	1	8/6/2013 10:21 PM
Thallium	BRL	1.00		ug/L	179234	1	8/6/2013 10:21 PM
Zinc	BRL	10.0		ug/L	179234	1	8/6/2013 10:21 PM
TOTAL MERCURY E245.1					**(SW7470A)**		Analyst: **CGL**
Mercury	BRL	0.00020		mg/L	179207	1	7/31/2013 1:33 PM
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**		Analyst: **YH**
1,2,4-Trichlorobenzene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
1,2-Dichlorobenzene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
1,2-Diphenylhydrazine	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
1,3-Dichlorobenzene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
1,4-Dichlorobenzene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
2,4,6-Trichlorophenol	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
2,4-Dichlorophenol	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
2,4-Dimethylphenol	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
2,4-Dinitrophenol	BRL	25		ug/L	179203	1	8/1/2013 6:24 PM
2,4-Dinitrotoluene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 08-Aug-13

CLIENT: ABC Coke
Client Sample ID: 002
Project: NPDES Permit Renewal 002
Collection Date: 7/29/2013 10:20:00 AM
Lab ID: 1307O04-001
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					(E625)		Analyst: **YH**
2,6-Dinitrotoluene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
2-Chloronaphthalene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
2-Chlorophenol	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
2-Nitrophenol	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
3,3'-Dichlorobenzidine	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
4,6-Dinitro-2-methylphenol	BRL	20		ug/L	179203	1	8/1/2013 6:24 PM
4-Bromophenyl phenyl ether	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
4-Chloro-3-methylphenol	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
4-Chlorophenyl phenyl ether	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
4-Nitrophenol	BRL	25		ug/L	179203	1	8/1/2013 6:24 PM
Acenaphthene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Acenaphthylene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Anthracene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Benz(a)anthracene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Benzidine	BRL	80		ug/L	179203	1	8/1/2013 6:24 PM
Benzo(a)pyrene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Benzo(b)fluoranthene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Benzo(k)fluoranthene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Bis(2-chloroethoxy)methane	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Bis(2-chloroethyl)ether	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Butyl benzyl phthalate	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Chrysene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Diethyl phthalate	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Dimethyl phthalate	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Di-n-butyl phthalate	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Di-n-octyl phthalate	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Fluoranthene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Fluorene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Hexachlorobenzene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Hexachlorobutadiene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Hexachlorocyclopentadiene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Hexachloroethane	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Isophorone	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Naphthalene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Nitrobenzene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
N-Nitrosodimethylamine	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *08-Aug-13*

CLIENT: ABC Coke
Project: NPDES Permit Renewal 002
Lab ID: 1307O04-001

Client Sample ID: 002
Collection Date: 7/29/2013 10:20:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**		Analyst: **YH**
N-Nitrosodi-n-propylamine	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
N-Nitrosodiphenylamine	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Pentachlorophenol	BRL	25		ug/L	179203	1	8/1/2013 6:24 PM
Phenanthrene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Phenol	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Pyrene	BRL	10		ug/L	179203	1	8/1/2013 6:24 PM
Surr: 2,4,6-Tribromophenol	83.3	50.9-150		%REC	179203	1	8/1/2013 6:24 PM
Surr: 2-Fluorobiphenyl	89.7	50.7-121		%REC	179203	1	8/1/2013 6:24 PM
Surr: 2-Fluorophenol	54 7	25 6-120		%REC	179203	1	8/1/2013 6:24 PM
Surr: 4-Terphenyl-d14	101	44-147		%REC	179203	1	8/1/2013 6:24 PM
Surr: Nitrobenzene-d5	77.3	41.6-120		%REC	179203	1	8/1/2013 6:24 PM
Surr: phenol-d5	32.9	13-120		%REC	179203	1	8/1/2013 6:24 PM
SEMIVOLATILE ORG. COMP. BY GC/MS SW8270D					**(E625)**		Analyst: **YH**
Bis(chloromethyl) ether	BRL	100	N	ug/L	179203	1	8/1/2013 6:24 PM
PRIORITY POLLUTANT-VOLATILES E624					**(SW5030B)**		Analyst: **AR**
1,1,1-Trichloroethane	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
1,1,2,2-Tetrachloroethane	BRL	5 0		ug/L	179236	1	7/31/2013 9:02 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
1,1-Dichloroethane	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
1,1-Dichloroethene	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
1,2-Dichloroethane	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
1,2-Dichloropropane	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
2-Chloroethyl vinyl ether	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Acrolein	BRL	20		ug/L	179236	1	7/31/2013 9:02 PM
Acrylonitrile	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Benzene	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Bromodichloromethane	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Bromoform	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Bromomethane	BRL	5.0		ug/L	179236	1	7/31/2013 9 02 PM
Carbon tetrachlonde	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Chlorobenzene	BRL	5.0		ug/L	179236	1	7/31/2013 9.02 PM
Chloroethane	BRL	10		ug/L	179236	1	7/31/2013 9:02 PM
Chloroform	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Chloromethane	BRL	10		ug/L	179236	1	7/31/2013 9.02 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Dibromochloromethane	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Ethylbenzene	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Methylene chloride	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Tetrachloroethene	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Toluene	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *08-Aug-13*

CLIENT: ABC Coke
Client Sample ID: 002
Project: NPDES Permit Renewal 002
Collection Date: 7/29/2013 10:20:00 AM
Lab ID: 1307O04-001
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
PRIORITY POLLUTANT-VOLATILES E624					**(SW5030B)**		Analyst: **AR**
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Trichloroethene	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Trichlorofluoromethane	BRL	5.0		ug/L	179236	1	7/31/2013 9:02 PM
Vinyl chloride	BRL	2.0		ug/L	179236	1	7/31/2013 9:02 PM
Surr: 4-Bromofluorobenzene	89.6	64.6-123		%REC	179236	1	7/31/2013 9:02 PM
Surr: Dibromofluoromethane	103	76.6-133		%REC	179236	1	7/31/2013 9:02 PM
Surr: Toluene-d8	91.8	77.8-120		%REC	179236	1	7/31/2013 9:02 PM
PRIORITY POLLUTANT-VOLATILES E624					**(SW5030B)**		Analyst: **AR**
Dichlorodifluoromethane	BRL	10		ug/L	179236	1	7/31/2013 9:02 PM
COLOR (E110.2/SM2120 B)							Analyst: **MG**
Color	30	10		Pt-Co		2	7/30/2013 6:20 PM
RESIDUE,SUSPENDED(TSS)(E160.2/SM2540D)							Analyst: **KIB**
Residue, Suspended (TSS)	8.5	5.0		mg/L	179277	1	8/1/2013 12:22 PM
CHLORINE,T. RESIDUAL(E330.5/SM4500CLG)							Analyst: **MG**
Chlorine	BRL	0.200	H	mg/L		1	8/1/2013 1:30 PM
CHEMICAL OXYGEN DEMAND (COD) E410.4							Analyst: **MG**
Chemical Oxygen Demand	32.5	10.0		mg/L		1	8/2/2013 10:45 AM
PHENOLICS, TOTAL RECOVERABLE E420.1					**(E420.1)**		Analyst: **LW**
Phenolics, Total Recoverable	BRL	0.05		mg/L	179283	1	8/1/2013 6:00 PM
TOTAL CYANIDE (SM4500 CN-C, E)					**(SM4500-CN-E)**		Analyst: **ERH**
Cyanide, Total	BRL	0.010		mg/L	179350	1	8/1/2013 12:00 PM
CARBONACEOUS BOD-5 SM5210 B							Analyst: **MG**
Biochemical Oxygen Demand	BRL	5.00		mg/L	179231	1	7/31/2013 10:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exeeeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client LRS Work Order Number 1307024

Checklist completed by Sam B 7/30/13
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes ✓ No __ Not Present __

Custody seals intact on sample bottles? Yes No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.2 Cooler #2 ___ Cooler #3 ___ Cooler #4 ___ Cooler#5 ___ Cooler #6 ___

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by SB

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc

Date: 8-Aug-13

Client: ABC Coke
Project: NPDES Permit Renewal 002
Lab Order: 1307O04

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1307O04-001A	002	7/29/2013 10:20:00AM	Aqueous	PP-VOLATILES		07/31/2013	07/31/2013
1307O04-001A	002	7/29/2013 10:20:00AM	Aqueous	PP-VOLATILES		07/31/2013	07/31/2013
1307O04-001B	002	7/29/2013 10:20:00AM	Aqueous	Total Cyanide		08/01/2013	08/01/2013
1307O04-001C	002	7/29/2013 10:20:00AM	Aqueous	Nitrogen, Ammonia (as N)		08/03/2013	08/06/2013
1307O04-001C	002	7/29/2013 10:20:00AM	Aqueous	Nitrogen, total Kjeldahl (TKN)		08/02/2013	08/05/2013
1307O04-001C	002	7/29/2013 10:20:00AM	Aqueous	Phosphorus , Total		08/01/2013	08/05/2013
1307O04-001C	002	7/29/2013 10:20:00AM	Aqueous	Total Organic Nitrogen			08/06/2013
1307O04-001D	002	7/29/2013 10:20:00AM	Aqueous	PP-SEMIVOLATILE ORGANICS		07/31/2013	08/01/2013
1307O04-001D	002	7/29/2013 10:20:00AM	Aqueous	Semivolatile Org. Comp. by GC/MS		07/31/2013	08/01/2013
1307O04-001E	002	7/29/2013 10:20:00AM	Aqueous	Trace Elements by ICP/MS		07/31/2013	08/06/2013
1307O04-001E	002	7/29/2013 10:20:00AM	Aqueous	Trace Elements by ICP/MS		07/31/2013	08/07/2013
1307O04-001E	002	7/29/2013 10:20:00AM	Aqueous	TOTAL MERCURY		07/31/2013	07/31/2013
1307O04-001F	002	7/29/2013 10:20:00AM	Aqueous	Color			07/30/2013
1307O04-001F	002	7/29/2013 10:20:00AM	Aqueous	Residue, Suspended (TSS)		08/01/2013	08/01/2013
1307O04-001F	002	7/29/2013 10:20:00AM	Aqueous	Chlorine, Total Residual			08/01/2013
1307O04-001G	002	7/29/2013 10:20:00AM	Aqueous	Nitrogen, Nitrate-Nitrite (as N)			08/01/2013
1307O04-001G	002	7/29/2013 10:20:00AM	Aqueous	Chemical Oxygen Demand (COD)			08/02/2013
1307O04-001G	002	7/29/2013 10:20:00AM	Aqueous	Total Organic Carbon (TOC)			07/31/2013
1307O04-001H	002	7/29/2013 10:20:00AM	Aqueous	Carbonaceous BOD-5		07/31/2013	07/31/2013
1307O04-001I	002	7/29/2013 10:20:00AM	Aqueous	Phenolics, Total Recoverable		08/01/2013	08/01/2013

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **MB-179203** Client ID Units **ug/L** Prep Date: **07/31/2013** Run No. **249061**
SampleType: **MBLK** TestCode **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **179203** Analysis Date: **07/31/2013** Seq No: **5220134**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	BRL	10									
1,2-Dichlorobenzene	BRL	10									
1,2-Diphenylhydrazine	BRL	10									
1,3-Dichlorobenzene	BRL	10									
1,4-Dichlorobenzene	BRL	10									
2,4,6-Trichlorophenol	BRL	10									
2,4-Dichlorophenol	BRL	10									
2,4-Dimethylphenol	BRL	10									
2,4-Dinitrophenol	BRL	25									
2,4-Dinitrotoluene	BRL	10									
2,6-Dinitrotoluene	BRL	10									
2-Chloronaphthalene	BRL	10									
2-Chlorophenol	BRL	10									
2-Nitrophenol	BRL	10									
3,3'-Dichlorobenzidine	BRL	10									
4,6-Dinitro-2-methylphenol	BRL	20									
4-Bromophenyl phenyl ether	BRL	10									
4-Chloro-3-methylphenol	BRL	10									
4-Chlorophenyl phenyl ether	BRL	10									
4-Nitrophenol	BRL	25									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzidine	BRL	80									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									

Qualifiers:
- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **MB-179203**	Client ID:	Units **ug/L**	Prep Date **07/31/2013**	Run No: **249061**
SampleType: **MBLK**	TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**	BatchID: **179203**	Analysis Date: **07/31/2013**	Seq No. **5220134**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Bis(2-chloroethoxy)methane	BRL	10									
Bis(2-chloroethyl)ether	BRL	10									
Bis(2-chloroisopropyl)ether	BRL	10									
Bis(2-ethylhexyl)phthalate	BRL	10									
Butyl benzyl phthalate	BRL	10									
Chrysene	BRL	10									
Di-n-butyl phthalate	BRL	10									
Di-n-octyl phthalate	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Diethyl phthalate	BRL	10									
Dimethyl phthalate	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Hexachlorobenzene	BRL	10									
Hexachlorobutadiene	BRL	10									
Hexachlorocyclopentadiene	BRL	10									
Hexachloroethane	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Isophorone	BRL	10									
N-Nitrosodi-n-propylamine	BRL	10									
N-Nitrosodimethylamine	BRL	10									
N-Nitrosodiphenylamine	BRL	10									
Naphthalene	BRL	10									
Nitrobenzene	BRL	10									
Pentachlorophenol	BRL	25									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **MB-179203**	Client ID:				Units **ug/L**		Prep Date **07/31/2013**		Run No **249061**	
SampleType: **MBLK**	TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**				BatchID **179203**		Analysis Date **07/31/2013**		Seq No: **5220134**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Phenanthrene	BRL	10								
Phenol	BRL	10								
Pyrene	BRL	10								
Surr: 2,4,6-Tribromophenol	89.87	0	100.0		89.9	50.9	150			
Surr: 2-Fluorobiphenyl	46.88	0	50 00		93 8	50 7	121			
Surr: 2-Fluorophenol	60.56	0	100 0		60.6	25.6	120			
Surr. 4-Terphenyl-d14	51.75	0	50.00		104	44	147			
Surr: Nitrobenzene-d5	40.59	0	50.00		81.2	41.6	120			
Surr: Phenol-d5	37.72	0	100.0		37.7	13	120			

Sample ID: **MB-179203**	Client ID:				Units: **ug/L**		Prep Date: **07/31/2013**		Run No: **249102**	
SampleType: **MBLK**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**				BatchID: **179203**		Analysis Date: **07/31/2013**		Seq No. **5220325**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Bis(chloromethyl) ether	BRL	100								

Sample ID: **MB-179203**	Client ID:				Units: **ug/L**		Prep Date: **07/31/2013**		Run No: **249195**	
SampleType: **MBLK**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**				BatchID: **179203**		Analysis Date: **08/01/2013**		Seq No **5222225**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Bis(chloromethyl) ether	BRL	100								

Sample ID: **LCS-179203**	Client ID:				Units: **ug/L**		Prep Date **07/31/2013**		Run No. **249061**	
SampleType: **LCS**	TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**				BatchID. **179203**		Analysis Date **07/31/2013**		Seq No **5220136**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
1,2,4-Trichlorobenzene	75 91	10	100 0		75.9	57.3	129.2			
1,2-Dichlorobenzene	72.14	10	100.0		72 1	48.6	112			

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **LCS-179203** Client ID: Units: **ug/L** Prep Date: **07/31/2013** Run No. **249061**
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **179203** Analysis Date: **07/31/2013** Seq No: **5220136**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	94.85	10	200.0		47.4	35.4	120				
1,3-Dichlorobenzene	73.36	10	100 0		73 4	16.7	153.9				
1,4-Dichlorobenzene	70.36	10	100.0		70.4	37.3	105.7				
2,4,6-Trichlorophenol	97.22	10	100 0		97 2	52.4	129 2				
2,4-Dichlorophenol	80.58	10	100.0		80 6	52.5	121.7				
2,4-Dimethylphenol	83.50	10	100 0		83.5	41 8	109				
2,4-Dinitrophenol	88.47	25	100.0		88.5	1	172.9				
2,4-Dinitrotoluene	108.2	10	100.0		108	47 5	126 9				
2,6-Dinitrotoluene	102.4	10	100.0		102	68.1	136.7				
2-Chloronaphthalene	86.85	10	100 0		86.8	64 5	113 5				
2-Chlorophenol	87 52	10	100.0		87.5	36.2	120.4				
2-Nitrophenol	80.92	10	100.0		80.9	45	166 7				
3,3'-Dichlorobenzidine	97 65	10	100.0		97.6	8.2	212 5				
4,6-Dinitro-2-methylphenol	116.2	20	100.0		116	53	100				S
4-Bromophenyl phenyl ether	103 1	10	100.0		103	64.9	114.4				
4-Chloro-3-methylphenol	86.64	10	100.0		86.6	40.8	127.9				
4-Chlorophenyl phenyl ether	95.83	10	100 0		95.8	38 4	144.7				
4-Nitrophenol	57 30	25	100.0		57.3	13	106.5				
Acenaphthene	98.12	10	100 0		98.1	60.1	132.3				
Acenaphthylene	97 03	10	100.0		97.0	53.5	126				
Anthracene	99 21	10	100.0		99.2	43.4	118				
Benz(a)anthracene	100 5	10	100.0		100	41.8	133				
Benzidine	BRL	80	200 0		21.7	1	120				
Benzo(a)pyrene	91.43	10	100 0		91.4	31 7	148				
Benzo(b)fluoranthene	85.09	10	100.0		85.1	42	140.4				
Benzo(g,h,i)perylene	99.93	10	100.0		99.9	1	195				
Benzo(k)fluoranthene	106.4	10	100 0		106	25 2	145 7				

Qualifiers:

- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **LCS-179203** Client ID: Units **ug/L** Prep Date: **07/31/2013** Run No **249061**
SampleType: **LCS** TestCode **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID **179203** Analysis Date **07/31/2013** Seq No **5220136**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(2-chloroethoxy)methane	86 41	10	100.0		86 4	49 2	164.7				
Bis(2-chloroethyl)ether	72.56	10	100.0		72.6	42.9	126				
Bis(2-chloroisopropyl)ether	79.48	10	100.0		79 5	62 8	138.6				
Bis(2-ethylhexyl)phthalate	98.26	10	100.0		98.3	28 9	136.88				
Butyl benzyl phthalate	92.84	10	100.0		92 8	1	139.9				
Chrysene	84 61	10	100.0		84.6	44.1	139.9				
Di-n-butyl phthalate	98 87	10	100.0		98.9	8.4	111				
Di-n-octyl phthalate	91 95	10	100.0		92.0	18.6	131.8				
Dibenz(a,h)anthracene	99.68	10	100.0		99.7	1	199.7				
Diethyl phthalate	95.54	10	100.0		95.5	1	100				
Dimethyl phthalate	95.64	10	100 0		95.6	1	100				
Fluoranthene	101.6	10	100.0		102	42.9	121.3				
Fluorene	98.43	10	100 0		98.4	71.6	108.4				
Hexachlorobenzene	102.8	10	100 0		103	7.8	141.5				
Hexachlorobutadiene	76 78	10	100 0		76.8	37.8	102.2				
Hexachloroeyclopentadiene	142 8	10	100.0		143	35.8	153				
Hexachloroethane	67.29	10	100.0		67.3	55.2	100				
Indeno(1,2,3-cd)pyrene	100.8	10	100.0		101	1	150.9				
Isophorone	73.58	10	100.0		73 6	46.6	180.2				
N-Nitrosodi-n-propylamine	81.71	10	100.0		81 7	13.6	197.9				
N-Nitrosodimethylamine	52.95	10	100.0		53 0	33.1	120				
N-Nitrosodiphenylamine	46.55	10	100.0		46.6	33.4	120				
Naphthalene	84.51	10	100.0		84 5	35.6	119.6				
Nitrobenzene	87.90	10	100.0		87 9	54.3	157.6				
Pentachlorophenol	108.2	25	100.0		108	38.1	151.8				
Phenanthrene	104.9	10	100.0		105	65.2	108.7				
Phenol	49.87	10	100.0		49.9	16.6	100				

Qualifiers:

- `>` Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- `<` Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **LCS-179203**	Client ID:				Units: **ug/L**		Prep Date: **07/31/2013**		Run No: **249061**	
SampleType: **LCS**	TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**				BatchID: **179203**		Analysis Date **07/31/2013**		Seq No: **5220136**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Pyrene	92.36	10	100.0		92.4	69.6	100			
Surr: 2,4,6-Tribromophenol	93.23	0	100.0		93.2	50 9	150			
Surr: 2-Fluorobiphenyl	50.34	0	50.00		101	50.7	121			
Surr: 2-Fluorophenol	57.82	0	100 0		57.8	25.6	120			
Surr: 4-Terphenyl-d14	49.10	0	50 00		98.2	44	147			
Surr: Nitrobenzene-d5	46.48	0	50 00		93 0	41.6	120			
Surr: Phenol-d5	38.52	0	100.0		38.5	13	120			

Sample ID: **1307M72-001BMS**	Client ID:				Units: **ug/L**		Prep Date: **07/31/2013**		Run No: **249061**	
SampleType: **MS**	TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**				BatchID **179203**		Analysis Date: **07/31/2013**		Seq No: **5220140**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
1,2,4-Trichlorobenzene	68 40	50	100.0		68 4	44	142			
1,2-Dichlorobenzene	63.85	50	100 0		63.8	32	129			
1,2-Diphenylhydrazine	75.05	50	200.0		37.5	20 3	120			
1,3-Dichlorobenzene	57 60	50	100.0		57.6	1	172			
1,4-Dichlorobenzene	61.00	50	100 0		61.0	20	124			
2,4,6-Trichlorophenol	82 00	50	100.0		82.0	37	144			
2,4-Dichlorophenol	68.85	50	100.0		68.8	39	135			
2,4-Dimethylphenol	69.20	50	100.0		69 2	32	119			
2,4-Dinitrophenol	BRL	130	100.0		100	1	191			
2,4-Dinitrotoluene	73.35	50	100 0		73.4	39	139			
2,6-Dinitrotoluene	72.40	50	100.0		72.4	50	158			
2-Chloronaphthalene	71.35	50	100.0		71.4	60	118			
2-Chlorophenol	60.30	50	100.0		60.3	23	134			
2-Nitrophenol	62.55	50	100 0		62 6	29	182			
3,3'-Dichlorobenzidine	BRL	50	100 0		32.4	1	262			
4,6-Dinitro-2-methylphenol	BRL	100	100.0		54.2	1	181			

Qualifiers:

- `>` Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- `<` Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **1307M72-001BMS** Client ID
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**
Units: **ug/L** BatchID: **179203**
Prep Date: **07/31/2013** Analysis Date: **07/31/2013**
Run No **249061** Seq No **5220140**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4-Bromophenyl phenyl ether	77.85	50	100.0		77.8	53	127				
4-Chloro-3-methylphenol	74.10	50	100.0		74.1	22	147				
4-Chlorophenyl phenyl ether	83.15	50	100.0		83.2	25	158				
4-Nitrophenol	BRL	130	100.0		44.7	1	132				
Acenaphthene	79.80	50	100.0		79.8	47	145				
Acenaphthylene	79.25	50	100.0		79.2	33	145				
Anthracene	76.75	50	100.0		76.8	27	133				
Benz(a)anthracene	85.90	50	100.0		85.9	33	143				
Benzidine	BRL	400	200.0		0	1	120				S
Benzo(a)pyrene	66.75	50	100.0		66.8	17	163				
Benzo(b)fluoranthene	62.00	50	100.0		62.0	24	159				
Benzo(g,h,i)perylene	76.05	50	100.0		76.0	1	219				
Benzo(k)fluoranthene	82.40	50	100.0		82.4	11	162				
Bis(2-chloroethoxy)methane	68.30	50	100.0		68.3	33	184				
Bis(2-chloroethyl)ether	60.25	50	100.0		60.2	12	158				
Bis(2-chloroisopropyl)ether	70.45	50	100.0		70.4	36	166				
Bis(2-ethylhexyl)phthalate	72.95	50	100.0		73.0	8	158				
Butyl benzyl phthalate	75.25	50	100.0		75.2	1	152				
Chrysene	78.30	50	100.0		78.3	17	168				
Di-n-butyl phthalate	79.85	50	100.0		79.8	1	118				
Di-n-octyl phthalate	70.50	50	100.0		70.5	4	146				
Dibenz(a,h)anthracene	69.25	50	100.0		69.2	1	227				
Diethyl phthalate	82.05	50	100.0		82.0	1	114				
Dimethyl phthalate	81.60	50	100.0		81.6	1	112				
Fluoranthene	83.55	50	100.0		83.6	26	137				
Fluorene	82.45	50	100.0		82.4	59	121				
Hexachlorobenzene	79.15	50	100.0		79.2	1	152				

Qualifiers:

- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
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- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **1307M72-001BMS** Client ID Units: **ug/l.** Prep Date **07/31/2013** Run No: **249061**
SampleType. **MS** TestCode. **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **179203** Analysis Date: **07/31/2013** Seq No: **5220140**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Hexachlorobutadiene	67.65	50	100.0		67.6	24	116				
Hexachlorocyclopentadiene	56.55	50	100.0		56.6	1	140				
Hexachloroethane	57.75	50	100.0		57.8	40	113				
Indeno(1,2,3-cd)pyrene	70.50	50	100.0		70 5	1	171				
Isophorone	62.85	50	100 0		62 8	21	196				
N-Nitrosodi-n-propylamine	65.90	50	100.0		65.9	1	230				
N-Nitrosodimethylamine	BRL	50	100.0		49.6	17.8	120				
N-Nitrosodiphenylamine	BRL	50	100.0		35 0	17.1	120				
Naphthalene	69.05	50	100 0		69 0	21	133				
Nitrobenzene	63.00	50	100 0		63.0	35	180				
Pentachlorophenol	BRL	130	100.0		60.8	14	176				
Phenanthrene	83.15	50	100.0		83.2	54	120				
Phenol	BRL	50	100.0		41.2	5	112				
Pyrene	78 45	50	100.0		78.4	52	115				
Surr. 2,4,6-Tribromophenol	79.95	0	100.0		80.0	50.9	150				
Surr: 2-Fluorobiphenyl	42.75	0	50.00		85.5	50.7	121				
Surr: 2-Fluorophenol	50.70	0	100.0		50.7	25.6	120				
Surr: 4-Terphenyl-d14	43.10	0	50.00		86.2	44	147				
Surr: Nitrobenzene-d5	34.55	0	50.00		69.1	41.6	120				
Surr: Phenol-d5	39.95	0	100 0		40.0	13	120				

Sample ID: **1307M72-001BMSD** Client ID: Units: **ug/L** Prep Date **07/31/2013** Run No. **249061**
SampleType **MSD** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID. **179203** Analysis Date: **07/31/2013** Seq No. **5220142**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	70 25	50	100.0		70.2	44	142	68 40	2.67	28.1	
1,2-Dichlorobenzene	65.05	50	100.0		65.0	32	129	63 85	1 86	30.9	
1,2-Diphenylhydrazine	76.80	50	200.0		38.4	20.3	120	75.05	2.30	30.4	

Qualifiers:
- `>` Greater than Result value
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- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **1307M72-001BMSD** Client ID | Units **ug/L** | Prep Date: **07/31/2013** | Run No: **249061**
SampleType: **MSD** | TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** | BatchID: **179203** | Analysis Date: **07/31/2013** | Seq No: **5220142**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,3-Dichlorobenzene	58.75	50	100 0		58.8	1	172	57.60	1.98	41 7	
1,4-Dichlorobenzene	62.35	50	100.0		62.4	20	124	61.00	2.19	32.1	
2,4,6-Trichlorophenol	83.00	50	100.0		83.0	37	144	82.00	1.21	31.7	
2,4-Dichlorophenol	71.45	50	100.0		71.4	39	135	68 85	3 71	26.4	
2,4-Dimethylphenol	70 20	50	100.0		70 2	32	119	69.20	1.43	26.1	
2,4-Dinitrophenol	BRL	130	100.0		104	1	191	100.2	0	49.8	
2,4-Dinitrotoluene	75.85	50	100.0		75.8	39	139	73.35	3.35	21.8	
2,6-Dinitrotoluene	74.80	50	100.0		74.8	50	158	72.40	3.26	29.6	
2-Chloronaphthalene	72.40	50	100.0		72 4	60	118	71 35	1.46	13	
2-Chlorophenol	62.35	50	100.0		62.4	23	134	60 30	3 34	28.7	
2-Nitrophenol	66.70	50	100.0		66.7	29	182	62.55	6.42	35.2	
3,3'-Dichlorobenzidine	BRL	50	100.0		29.0	1	262	32.35	0	71.4	
4,6-Dinitro-2-methylphenol	BRL	100	100.0		57.2	1	181	54.15	0	93.2	
4-Bromophenyl phenyl ether	78.15	50	100.0		78.2	53	127	77.85	0.385	23	
4-Chloro-3-methylphenol	74.85	50	100.0		74.8	22	147	74 10	1.01	37.2	
4-Chlorophenyl phenyl ether	83.60	50	100 0		83.6	25	158	83 15	0.540	33.4	
4-Nitrophenol	BRL	130	100.0		47.0	1	132	44 70	0	47 2	
Acenaphthene	81.30	50	100.0		81.3	47	145	79.80	1.86	27 6	
Acenaphthylene	80.10	50	100.0		80 1	33	145	79 25	1.07	40.2	
Anthracene	77 80	50	100.0		77.8	27	133	76.75	1.36	32	
Benz(a)anthracene	86.75	50	100.0		86.8	33	143	85.90	0.985	27 6	
Benzidine	BRL	400	200.0		0	1	120	0	0	50	S
Benzo(a)pyrene	66.70	50	100.0		66 7	17	163	66.75	0.075	39	
Benzo(b)fluoranthene	63.15	50	100 0		63.2	24	159	62.00	1.84	38.8	
Benzo(g,h,i)perylene	75.45	50	100 0		75 4	1	219	76 05	0.792	58.9	
Benzo(k)fluoranthene	88.75	50	100 0		88 8	11	162	82.40	7.42	32.3	
Bis(2-chloroethoxy)methane	70.30	50	100.0		70.3	33	184	68.30	2.89	34.5	

Qualifiers:

- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **1307M72-001BMSD** Client ID: Units **ug/L** Prep Date: **07/31/2013** Run No: **249061**
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **179203** Analysis Date: **07/31/2013** Seq No: **5220142**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(2-chloroethyl)ether	61.35	50	100.0		61.4	12	158	60.25	1.81	55	
Bis(2-chloroisopropyl)ether	72.10	50	100.0		72.1	36	166	70.45	2.31	46.3	
Bis(2-ethylhexyl)phthalate	74.55	50	100.0		74.6	8	158	72.95	2.17	41.1	
Butyl benzyl phthalate	77.25	50	100.0		77.2	1	152	75.25	2.62	23.4	
Chrysene	79.85	50	100.0		79.8	17	168	78.30	1.96	48.3	
Di-n-butyl phthalate	80.65	50	100.0		80.6	1	118	79.85	0.997	16.7	
Di-n-octyl phthalate	71.75	50	100.0		71.8	4	146	70.50	1.76	31.4	
Dibenz(a,h)anthracene	69.40	50	100.0		69.4	1	227	69.25	0.216	70	
Diethyl phthalate	82.65	50	100.0		82.6	1	114	82.05	0.729	26.5	
Dimethyl phthalate	83.00	50	100.0		83.0	1	112	81.60	1.70	23.2	
Fluoranthene	84.40	50	100.0		84.4	26	137	83.55	1.01	32.8	
Fluorene	82.75	50	100.0		82.8	59	121	82.45	0.363	20.7	
Hexachlorobenzene	81.20	50	100.0		81.2	1	152	79.15	2.56	24.9	
Hexachlorobutadiene	69.25	50	100.0		69.2	24	116	67.65	2.34	26.3	
Hexachlorocyclopentadiene	62.20	50	100.0		62.2	1	140	56.55	9.52	35.6	
Hexachloroethane	59.00	50	100.0		59.0	40	113	57.75	2.14	24.5	
Indeno(1,2,3-cd)pyrene	71.05	50	100.0		71.0	1	171	70.50	0.777	44.6	
Isophorone	63.95	50	100.0		64.0	21	196	62.85	1.74	63.3	
N-Nitrosodi-n-propylamine	68.65	50	100.0		68.6	1	230	65.90	4.09	55.4	
N-Nitrosodimethylamine	50.75	50	100.0		50.8	17.8	120	49.55	2.39	29.9	
N-Nitrosodiphenylamine	BRL	50	100.0		36.2	17.1	120	35.05	0	20	
Naphthalene	70.90	50	100.0		70.9	21	133	69.05	2.64	30.1	
Nitrobenzene	64.85	50	100.0		64.8	35	180	63.00	2.89	39.3	
Pentachlorophenol	BRL	130	100.0		63.2	14	176	60.75	0	48.9	
Phenanthrene	83.30	50	100.0		83.3	54	120	83.15	0.180	20.6	
Phenol	BRL	50	100.0		43.8	5	112	41.25	0	22.6	
Pyrene	79.75	50	100.0		79.8	52	115	78.45	1.64	25.2	

Qualifiers:

- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179203

Sample ID: **1307M72-001BMSD**	Client ID:				Units: **ug/L**		Prep Date **07/31/2013**		Run No: **249061**		
SampleType: **MSD**	TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**				BatchID: **179203**		Analysis Date: **07/31/2013**		Seq No: **5220142**		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	77 10	0	100.0		77.1	50.9	150	79.95	0	0	
Surr: 2-Fluorobiphenyl	41.90	0	50 00		83 8	50.7	121	42.75	0	0	
Surr: 2-Fluorophenol	50.90	0	100.0		50 9	25.6	120	50.70	0	0	
Surr: 4-Terphenyl-d14	42.40	0	50 00		84.8	44	147	43 10	0	0	
Surr: Nitrobenzene-d5	33 50	0	50.00		67.0	41.6	120	34 55	0	0	
Surr: Phenol-d5	39.80	0	100 0		39 8	13	120	39.95	0	0	

Qualifiers:

*	Greater than Result value	·	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179207

Sample ID: **MB-179207**	Client ID:					Units: **mg/L**		Prep Date: **07/31/2013**		Run No: **249011**	
SampleType: **MBLK**	TestCode: **Total Mercury E245.1**					BatchID: **179207**		Analysis Date **07/31/2013**		Seq No: **5219082**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-179207**	Client ID:					Units: **mg/L**		Prep Date: **07/31/2013**		Run No **249011**	
SampleType: **LCS**	TestCode: **Total Mercury E245.1**					BatchID: **179207**		Analysis Date: **07/31/2013**		Seq No: **5219084**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004552	0.00020	0.0050		91.0	85	115				

Sample ID **1307M61-002BMS**	Client ID:					Units: **mg/L**		Prep Date: **07/31/2013**		Run No: **249011**	
SampleType: **MS**	TestCode: **Total Mercury E245.1**					BatchID: **179207**		Analysis Date: **07/31/2013**		Seq No: **5219088**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003316	0.00020	0.0050		66.3	70	130				S

Sample ID: **1307M61-002BMSD**	Client ID:					Units: **mg/L**		Prep Date: **07/31/2013**		Run No: **249011**	
SampleType: **MSD**	TestCode: **Total Mercury E245.1**					BatchID: **179207**		Analysis Date: **07/31/2013**		Seq No: **5219097**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003243	0.00020	0.0050		64.9	70	130	0.003316	2.23	20	S

Qualifiers:

*	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179231

Sample ID: **MB-179231**	Client ID:			Units: **mg/L**	Prep Date: **07/31/2013**	Run No: **249288**
SampleType: **MBLK**	TestCode: **Carbonaceous BOD-5**	**SM5210 B**		BatchID: **179231**	Analysis Date: **07/31/2013**	Seq No: **5224021**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	BRL	0.200									

Sample ID: **LCS-179231**	Client ID:			Units: **mg/L**	Prep Date: **07/31/2013**	Run No **249288**
SampleType: **LCS**	TestCode: **Carbonaceous BOD-5**	**SM5210 B**		BatchID: **179231**	Analysis Date **07/31/2013**	Seq No **5224022**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	182.4	5.00	198.0		92.1	85	115				

Sample ID **LCSD-179231**	Client ID:			Units: **mg/L**	Prep Date: **07/31/2013**	Run No: **249288**
SampleType: **LCSD**	TestCode: **Carbonaceous BOD-5**	**SM5210 B**		BatchID: **179231**	Analysis Date: **07/31/2013**	Seq No: **5224024**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	187.9	5.00	198.0		94.9	85	115	182.4	2.97	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179234

Sample ID: **MB-179234** Client ID: Units: **ug/L** Prep Date **07/31/2013** Run No: **249423**
SampleType: **MBLK** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **179234** Analysis Date: **08/06/2013** Seq No: **5227381**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	5.00									
Arsenic	BRL	5.00									
Beryllium	BRL	1.00									
Cadmium	BRL	0.700									
Chromium	BRL	5.00									
Copper	BRL	5.00									
Iron	BRL	100									
Lead	BRL	1 00									
Manganese	BRL	5.00									
Nickel	BRL	5 00									
Selenium	BRL	5.00									
Silver	BRL	1.00									
Thallium	BRL	1 00									
Zinc	BRL	10.0									

Sample ID: **LCS-179234** Client ID: Units: **ug/L** Prep Date: **07/31/2013** Run No: **249423**
SampleType: **LCS** TestCode **Trace Elements by ICP/MS E200.8** BatchID: **179234** Analysis Date: **08/06/2013** Seq No: **5227378**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	112.5	5.00	100.0	0.1920	112	85	115				
Arsenic	104.5	5.00	100.0		104	85	115				
Beryllium	101.0	1.00	100.0		101	85	115				
Cadmium	114.4	0.700	100 0	0.07000	114	85	115				
Chromium	108.5	5.00	100.0	1.705	107	85	115				
Copper	102.9	5.00	100.0		103	85	115				
Lead	110.5	1 00	100 0		110	85	115				
Manganese	107.8	5.00	100 0		108	85	115				
Nickel	103.2	5.00	100 0		103	85	115				

Qualifiers:
`>` Greater than Result value
`<` Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179234

Sample ID: **LCS-179234**	Client ID:				Units: **ug/L**		Prep Date: **07/31/2013**		Run No: **249423**	
SampleType **LCS**	TestCode: **Trace Elements by ICP/MS E200.8**				BatchID **179234**		Analysis Date: **08/06/2013**		Seq No: **5227378**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	110.7	5.00	100.0	1.428	109	85	115				
Silver	10.65	1.00	10.00		106	85	115				
Thallium	109.1	1.00	100.0	0 3240	109	85	115				

Sample ID: **LCS-179234**	Client ID:				Units: **ug/L**		Prep Date: **07/31/2013**		Run No: **249423**	
SampleType. **LCS**	TestCode: **Trace Elements by ICP/MS E200.8**				BatchID: **179234**		Analysis Date: **08/07/2013**		Seq No: **5229978**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	911.4	100	1000		91.1	85	115				
Zinc	101.9	10.0	100.0		102	85	115				

Sample ID: **1307O31-001AMS**	Client ID:				Units: **ug/L**		Prep Date **07/31/2013**		Run No **249423**	
SampleType: **MS**	TestCode. **Trace Elements by ICP/MS E200.8**				BatchID: **179234**		Analysis Date: **08/06/2013**		Seq No **5227387**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	112.0	5.00	100.0	0.07000	112	70	130				
Arsenic	105.1	5.00	100.0	1.067	104	70	130				
Beryllium	100.0	1.00	100.0		100	70	130				
Cadmium	112.9	0.700	100.0	0.01400	113	70	130				
Chromium	107.0	5.00	100.0	1.638	105	70	130				
Copper	101.5	5.00	100.0		102	70	130				
Iron	2193	100	1000	962.6	123	70	130				
Lead	110.4	1 00	100.0		110	70	130				
Manganese	2561	5 00	100.0	2685	-124	70	130				S
Nickel	114 8	5.00	100 0	13.91	101	70	130				
Selenium	109.8	5.00	100.0	0 3020	109	70	130				
Silver	10.45	1.00	10.00		104	70	130				
Thallium	109.5	1.00	100.0	0 07400	109	70	130				

Qualifiers:

- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179234

Sample ID: **1307O31-001AMS**	Client ID:				Units: **ug/L**		Prep Date: **07/31/2013**		Run No: **249423**	
SampleType: **MS**	TestCode: **Trace Elements by ICP/MS E200.8**				BatchID: **179234**		Analysis Date: **08/06/2013**		Seq No: **5227387**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Zinc	120.6	10 0	100.0	3.801	117	70	130				

Sample ID: **1307O31-001AMSD**	Client ID:				Units: **ug/L**		Prep Date: **07/31/2013**		Run No: **249423**	
SampleType: **MSD**	TestCode: **Trace Elements by ICP/MS E200.8**				BatchID **179234**		Analysis Date: **08/06/2013**		Seq No: **5227390**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	113.8	5.00	100.0	0.07000	114	70	130	112 0	1 59	20	
Arsenic	105.4	5.00	100 0	1.067	104	70	130	105.1	0 285	20	
Beryllium	101 2	1.00	100.0		101	70	130	100.0	1 19	20	
Cadmium	114 1	0 700	100.0	0.01400	114	70	130	112.9	1.06	20	
Chromium	108.9	5.00	100.0	1.638	107	70	130	107.0	1 76	20	
Copper	101 9	5.00	100 0		102	70	130	101.5	0.393	20	
Iron	2480	100	1000	962 6	152	70	130	2193	12 3	20	S
Lead	111.7	1.00	100.0		112	70	130	110.4	1 17	20	
Manganese	2872	5.00	100.0	2685	187	70	130	2561	11 4	20	S
Nickel	115.4	5.00	100.0	13 91	101	70	130	114.8	0.521	20	
Selenium	110.9	5.00	100.0	0.3020	111	70	130	109.8	0.997	20	
Silver	10.68	1.00	10.00		107	70	130	10 45	2.18	20	
Thallium	110.4	1 00	100.0	0 07400	110	70	130	109.5	0.819	20	
Zinc	122.4	10 0	100.0	3 801	119	70	130	120 6	1.48	20	

Qualifiers:

>	Greater than Result value	-	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179236

Sample ID: **MB-179236**	Client ID:			Units: **ug/L**	Prep Date: **07/31/2013**	Run No: **249008**
SampleType: **MBLK**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**			BatchID: **179236**	Analysis Date: **07/31/2013**	Seq No: **5219839**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dichlorodifluoromethane	BRL	10									

Sample ID: **MB-179236**	Client ID:			Units **ug/L**	Prep Date: **07/31/2013**	Run No: **249008**
SampleType: **MBLK**	TestCode **PRIORITY POLLUTANT-VOLATILES** **E624**			BatchID: **179236**	Analysis Date: **07/31/2013**	Seq No. **5219969**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
2-Chloroethyl vinyl ether	BRL	5.0									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Ethylbenzene	BRL	5.0									

Qualifiers:

*	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179236

Sample ID **MB-179236**	Client ID:				Units: **ug/L**		Prep Date **07/31/2013**		Run No: **249008**	
SampleType: **MBLK**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**				BatchID: **179236**		Analysis Date: **07/31/2013**		Seq No: **5219969**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Methylene chloride	BRL	5.0								
Tetrachloroethene	BRL	5.0								
Toluene	BRL	5.0								
trans-1,2-Dichloroethene	BRL	5.0								
trans-1,3-Dichloropropene	BRL	5.0								
Trichloroethene	BRL	5.0								
Trichlorofluoromethane	BRL	5.0								
Vinyl chloride	BRL	2.0								
Surr: 4-Bromofluorobenzene	43.09	0	50.00		86.2	64.6	123			
Surr: Dibromofluoromethane	50.53	0	50.00		101	76.6	133			
Surr: Toluene-d8	46.45	0	50.00		92.9	77.8	120			

Sample ID: **LCS-179236**	Client ID:				Units: **ug/L**		Prep Date: **07/31/2013**		Run No: **249008**	
SampleType: **LCS**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**				BatchID: **179236**		Analysis Date: **08/01/2013**		Seq No: **5219927**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Dichlorodifluoromethane	15.64	10	20.00		78.2	70	130			

Sample ID: **LCS-179236**	Client ID:				Units: **ug/L**		Prep Date: **07/31/2013**		Run No: **249008**	
SampleType: **LCS**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**				BatchID: **179236**		Analysis Date: **08/01/2013**		Seq No: **5219978**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	18.50	5.0	20.00		92.5	75	125			
1,1,2,2-Tetrachloroethane	17.97	5.0	20.00		89.8	61	140			
1,1,2-Trichloroethane	21.81	5.0	20.00		109	71	129			
1,1-Dichloroethane	18.81	5.0	20.00		94.0	73	128			
1,1-Dichloroethene	20.95	5.0	20.00		105	51	150			
1,2-Dichloroethane	22.63	5.0	20.00		113	68	132			

Qualifiers:

- `>` Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- `<` Less than Result value
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- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
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- R RPD outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179236

Sample ID: **LCS-179236** Client ID: Units: **ug/L** Prep Date: **07/31/2013** Run No: **249008**
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **179236** Analysis Date: **08/01/2013** Seq No: **5219978**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloropropane	20.76	5.0	20.00		104	34	166				
2-Chloroethyl vinyl ether	41.53	5 0	40.00		104	1	224				
Acrolein	24.43	20	40.00		61 1	30	170				
Acrylonitrile	46.16	5.0	40.00		115	46	153				
Benzene	20.93	5.0	20 00		105	64	136				
Bromodichloromethane	20 75	5 0	20.00		104	66	135				
Bromoform	18.70	5.0	20.00		93.5	71	129				
Bromomethane	21.30	5 0	20.00		106	14	186				
Carbon tetrachloride	17.90	5.0	20.00		89 5	73	127				
Chlorobenzene	20.44	5 0	20.00		102	66	134				
Chloroethane	21 02	10	20.00		105	38	162				
Chloroform	19.89	5 0	20.00		99.4	68	133				
Chloromethane	16 85	10	20.00		84 2	1	204				
cis-1,3-Dichloropropene	17.88	5.0	20.00		89.4	24	176				
Dibromochloromethane	19 20	5 0	20.00		96.0	68	133				
Ethylbenzene	19.27	5.0	20 00		96.4	59	141				
Methylene chloride	27.62	5 0	20.00	2.670	125	61	140				
Tetrachloroethene	23.70	5 0	20.00		118	74	127				
Toluene	20.70	5.0	20.00		104	75	126				
trans-1,2-Dichloroethene	19.14	5.0	20.00		95.7	70	131				
trans-1,3-Dichloropropene	18.21	5.0	20.00		91.0	50	150				
Trichloroethene	22.60	5.0	20 00		113	67	134				
Trichlorofluoromethane	21.39	5.0	20.00		107	48	152				
Vinyl chloride	18 15	2.0	20.00		90.8	4	196				
Surr: 4-Bromofluorobenzene	45 73	0	50.00		91.5	64.6	123				
Surr: Dibromofluoromethane	52 87	0	50 00		106	76.6	133				
Surr: Toluene-d8	48.49	0	50 00		97.0	77.8	120				

Qualifiers:

- `>` Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- `<` Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
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- B Analyte detected in the associated method blank
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- R RPD outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179236

Sample ID: **13071.88-015AMS** Client ID: Units: **ug/L** Prep Date **07/31/2013** Run No: **249008**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **179236** Analysis Date **07/31/2013** Seq No. **5219972**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.27	5.0	20.00		101	52	162				
1,1,2,2-Tetrachloroethane	19.37	5.0	20.00		96.8	46	157				
1,1,2-Trichloroethane	23.02	5.0	20.00		115	52	150				
1,1-Dichloroethane	22.09	5.0	20.00		110	59	155				
1,1-Dichloroethene	25.52	5.0	20.00		128	1	234				
1,2-Dichloroethane	23.64	5.0	20.00		118	49	155				
1,2-Dichloropropane	23.23	5.0	20.00		116	1	210				
2-Chloroethyl vinyl ether	46.46	5.0	40.00		116	1	305				
Acrolein	25.59	20	40.00		64.0	30	170				
Acrylonitrile	47.50	5.0	40.00		119	30	170				
Benzene	24.23	5.0	20.00		121	37	151				
Bromodichloromethane	21.44	5.0	20.00		107	35	155				
Bromoform	17.98	5.0	20.00		89.9	45	169				
Bromomethane	26.51	5.0	20.00		133	1	242				
Carbon tetrachloride	20.18	5.0	20.00		101	70	140				
Chlorobenzene	24.03	5.0	20.00		120	34	160				
Chloroethane	26.45	10	20.00		132	14	230				
Chloroform	22.40	5.0	20.00		112	51	138				
Chloromethane	21.54	10	20.00		108	1	273				
cis-1,3-Dichloropropene	18.62	5.0	20.00		93.1	1	227				
Dibromochloromethane	19.73	5.0	20.00		98.6	53	149				
Ethylbenzene	23.43	5.0	20.00		117	37	162				
Methylene chloride	23.51	5.0	20.00		118	1	221				
Tetrachloroethene	29.23	5.0	20.00		146	64	148				
Toluene	24.20	5.0	20.00		121	47	150				
trans-1,2-Dichloroethene	23.11	5.0	20.00		116	54	156				
trans-1,3-Dichloropropene	18.43	5.0	20.00		92.2	17	183				

Qualifiers:

- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179236

Sample ID: **1307L88-015AMS**	Client ID:		Units: **ug/L**	Prep Date: **07/31/2013**	Run No: **249008**
SampleType: **MS**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**		BatchID: **179236**	Analysis Date: **07/31/2013**	Seq No: **5219972**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	26.88	5.0	20 00		134	71	157				
Trichlorofluoromethane	26.77	5.0	20.00		134	17	181				
Vinyl chloride	23 92	2.0	20.00		120	1	251				
Surr: 4-Bromofluorobenzene	47.60	0	50.00		95.2	64.6	123				
Surr: Dibromofluoromethane	50.70	0	50.00		101	76.6	133				
Surr: Toluene-d8	47.44	0	50.00		94 9	77.8	120				

Sample ID: **1307L88-015AMSD**	Client ID.		Units: **ug/L**	Prep Date: **07/31/2013**	Run No: **249008**
SampleType: **MSD**	TestCode: **PRIORITY POLLUTANT-VOLATILES** **E624**		BatchID: **179236**	Analysis Date: **07/31/2013**	Seq No: **5219974**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.31	5.0	20.00		102	52	162	20.27	0.197	23	
1,1,2,2-Tetrachloroethane	18.66	5.0	20.00		93.3	46	157	19.37	3.73	37	
1,1,2-Trichloroethane	22.09	5 0	20.00		110	52	150	23.02	4 12	27.5	
1,1-Dichloroethane	21.68	5 0	20.00		108	59	155	22.09	1.87	25.5	
1,1-Dichloroethene	24 94	5.0	20.00		125	1	234	25.52	2.30	45.5	
1,2-Dichloroethane	24.63	5.0	20.00		123	49	155	23.64	4.10	30	
1,2-Dichloropropane	22.16	5.0	20.00		111	1	210	23.23	4.71	69	
2-Chloroethyl vinyl ether	44.32	5 0	40.00		111	1	305	46.46	4.71	130	
Acrolein	27.06	20	40.00		67 6	30	170	25 59	5.58	100	
Acrylonitrile	47.12	5.0	40.00		118	30	170	47.50	0.803	50	
Benzene	23.78	5.0	20 00		119	37	151	24.23	1 87	34.5	
Bromodichloromethane	21.75	5.0	20.00		109	35	155	21.44	1.44	32	
Bromoform	18.22	5.0	20.00		91.1	45	169	17.98	1.33	27	
Bromomethane	26.14	5.0	20.00		131	1	242	26.51	1.41	89 5	
Carbon tetrachloride	20.50	5.0	20.00		102	70	140	20.18	1.57	26	
Chlorobenzene	23.71	5.0	20.00		119	34	160	24 03	1.34	31.5	
Chloroethane	25.79	10	20 00		129	14	230	26.45	2.53	57	

Qualifiers:

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- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179236

Sample ID: **1307L88-015AMSD** Client ID: Units: **ug/L** Prep Date: **07/31/2013** Run No: **249008**
SampleType **MSD** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **179236** Analysis Date: **07/31/2013** Seq No: **5219974**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloroform	22.17	5 0	20 00		111	51	138	22.40	1.03	30 5	
Chloromethane	20.91	10	20.00		105	1	273	21 54	2.97	99	
cis-1,3-Dichloropropene	17.94	5.0	20 00		89.7	1	227	18.62	3.72	79	
Dibromochloromethane	20 00	5.0	20.00		100	53	149	19.73	1 36	30.5	
Ethylbenzene	23.15	5.0	20 00		116	37	162	23.43	1 20	37.5	
Methylene chloride	23.89	5.0	20.00		119	1	221	23 51	1 60	37	
Tetrachloroethene	29.08	5 0	20.00		145	64	148	29.23	0.514	25	
Toluene	23 37	5.0	20.00		117	47	150	24 20	3.49	24	
trans-1,2-Dichloroethene	22.82	5 0	20.00		114	54	156	23.11	1.26	28 5	
trans-1,3-Dichloropropene	17 80	5.0	20.00		89.0	17	183	18.43	3 48	52	
Trichloroethene	26 16	5.0	20.00		131	71	157	26.88	2.71	33	
Trichlorofluoromethane	27.10	5.0	20.00		136	17	181	26.77	1.23	50	
Vinyl chloride	23 73	2 0	20.00		119	1	251	23.92	0.797	100	
Surr: 4-Bromofluorobenzene	47 34	0	50.00		94.7	64.6	123	47 60	0	0	
Surr: Dibromofluoromethane	51 91	0	50.00		104	76.6	133	50.70	0	0	
Surr: Toluene-d8	47.47	0	50 00		94.9	77.8	120	47.44	0	0	

Qualifiers:

- `>` Greater than Result value
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- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- `<` Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179263

Sample ID: **MB-179263**	Client ID:					Units: **mg/L**		Prep Date: **08/01/2013**		Run No. **249277**	
SampleType: **MBLK**	TestCode: **Total Phosphorus E365.1**					BatchID: **179263**		Analysis Date: **08/05/2013**		Seq No. **5223680**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phosphorus, Total (As P)	BRL	0.050									

Sample ID: **LCS-179263**	Client ID:					Units: **mg/L**		Prep Date: **08/01/2013**		Run No: **249277**	
SampleType: **LCS**	TestCode: **Total Phosphorus E365.1**					BatchID: **179263**		Analysis Date: **08/05/2013**		Seq No: **5223699**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phosphorus, Total (As P)	2.160	0.050	2.000		108	90	110				

Sample ID: **1307N63-001CMS**	Client ID:					Units: **mg/L**		Prep Date: **08/01/2013**		Run No: **249277**	
SampleType: **MS**	TestCode: **Total Phosphorus E365.1**					BatchID: **179263**		Analysis Date: **08/05/2013**		Seq No: **5223706**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phosphorus, Total (As P)	2.370	0.050	2.000	0.02670	117	90	110				S

Sample ID: **1307N63-002CMS**	Client ID:					Units: **mg/L**		Prep Date: **08/01/2013**		Run No. **249277**	
SampleType: **MS**	TestCode: **Total Phosphorus E365.1**					BatchID: **179263**		Analysis Date: **08/05/2013**		Seq No: **5223765**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phosphorus, Total (As P)	2.270	0.050	2.000	0.07130	110	90	110				

Sample ID: **1307N63-001CMSD**	Client ID					Units: **mg/L**		Prep Date: **08/01/2013**		Run No **249277**	
SampleType: **MSD**	TestCode: **Total Phosphorus E365.1**					BatchID: **179263**		Analysis Date **08/05/2013**		Seq No **5223712**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phosphorus, Total (As P)	2.290	0.050	2.000	0.02670	113	90	110	2.370	3.43	20	S

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179277

Sample ID: **MB-179277**	Client ID.				Units. **mg/L**	Prep Date **08/01/2013**	Run No: **249113**
SampleType: **MBLK**	TestCode: **Residue,Suspended(TSS)(E160.2/SM2540D)**				BatchID **179277**	Analysis Date **08/01/2013**	Seq No: **5220558**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	BRL	5.0									

Sample ID **1307O04-001FDUP**	Client ID **002**				Units: **mg/L**	Prep Date: **08/01/2013**	Run No. **249113**
SampleType: **DUP**	TestCode **Residue,Suspended(TSS)(E160.2/SM2540D)**				BatchID: **179277**	Analysis Date: **08/01/2013**	Seq No. **5220562**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	8.500	5.0						8.500	0	5	

Sample ID: **1307O31-004BDUP**	Client ID:				Units: **mg/L**	Prep Date **08/01/2013**	Run No. **249113**
SampleType: **DUP**	TestCode: **Residue,Suspended(TSS)(E160.2/SM2540D)**				BatchID. **179277**	Analysis Date: **08/01/2013**	Seq No: **5220586**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	BRL	5.0						4.000	0	5	

Qualifiers:

- `*` Greater than Result value
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- BRL Below reporting limit
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- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179283

Sample ID: **MB-179283**	Client ID:				Units: **mg/L**	Prep Date: **08/01/2013**	Run No **249193**
SampleType: **MBLK**	TestCode: **Phenolics, Total Recoverable E420.1**				BatchID **179283**	Analysis Date: **08/01/2013**	Seq No: **5222199**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenolics, Total Recoverable	BRL	0.05									

Sample ID: **LCS-179283**	Client ID:				Units: **mg/L**	Prep Date: **08/01/2013**	Run No **249193**
SampleType: **LCS**	TestCode: **Phenolics, Total Recoverable E420.1**				BatchID **179283**	Analysis Date: **08/01/2013**	Seq No: **5222200**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenolics, Total Recoverable	0.4000	0.05	0.4000		100	80	120				

Sample ID: **1307J62-001GMS**	Client ID:				Units: **mg/L**	Prep Date: **08/01/2013**	Run No: **249193**
SampleType: **MS**	TestCode: **Phenolics, Total Recoverable E420.1**				BatchID: **179283**	Analysis Date: **08/01/2013**	Seq No: **5222205**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenolics, Total Recoverable	0.4156	0.05	0.4000		104	80	120				

Sample ID: **1307J62-001GMSD**	Client ID:				Units: **mg/L**	Prep Date: **08/01/2013**	Run No: **249193**
SampleType: **MSD**	TestCode: **Phenolics, Total Recoverable E420.1**				BatchID: **179283**	Analysis Date **08/01/2013**	Seq No: **5222206**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenolics, Total Recoverable	0.4000	0.05	0.4000		100	80	120	0.4156	3.83	30	

Qualifiers:

- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179350

Sample ID: **MB-179350**	Client ID:					Units: **mg/L**		Prep Date **08/01/2013**		Run No: **249242**
SampleType: **MBLK**	TestCode **Total Cyanide (SM4500 CN-C, E)**					BatchID: **179350**		Analysis Date: **08/01/2013**		Seq No **5222833**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Cyanide, Total	BRL	0.010								

Sample ID: **LCS-179350**	Client ID:					Units: **mg/L**		Prep Date: **08/01/2013**		Run No: **249242**
SampleType. **LCS**	TestCode **Total Cyanide (SM4500 CN-C, E)**					BatchID: **179350**		Analysis Date. **08/01/2013**		Seq No **5222834**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Cyanide, Total	0.2689	0.010	0.2500		108	90	110			

Sample ID: **1307L77-006AMS**	Client ID					Units: **mg/L**		Prep Date: **08/01/2013**		Run No **249242**
SampleType: **MS**	TestCode: **Total Cyanide (SM4500 CN-C, E)**					BatchID **179350**		Analysis Date: **08/01/2013**		Seq No **5222867**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Cyanide, Total	0.2484	0.010	0.2500	0.002300	98.4	90	110			

Sample ID: **1307L77-006AMSD**	Client ID:					Units: **mg/L**		Prep Date: **08/01/2013**		Run No: **249242**
SampleType **MSD**	TestCode: **Total Cyanide (SM4500 CN-C, E)**					BatchID. **179350**		Analysis Date: **08/01/2013**		Seq No. **5222869**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Cyanide, Total	0.2399	0.010	0.2500	0.002300	95.0	90	110	0.2484	3.48	20

Qualifiers:

*	Greater than Result value	·	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: 179366

Sample ID: **MB-179366**	Client ID:				Units: **mg/L**		Prep Date **08/03/2013**		Run No. **249402**	
SampleType. **MBLK**	TestCode: **Nitrogen, Ammonia (as N) E350.1**				BatchID: **179366**		Analysis Date: **08/06/2013**		Seq No **5226588**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrogen, Ammonia (As N)	BRL	0 200								

Sample ID: **LCS-179366**	Client ID:				Units **mg/L**		Prep Date: **08/03/2013**		Run No: **249402**	
SampleType: **LCS**	TestCode. **Nitrogen, Ammonia (as N) E350.1**				BatchID: **179366**		Analysis Date: **08/06/2013**		Seq No: **5226591**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrogen, Ammonia (As N)	4.990	0.200	5.000	0.07050	98.4	90	110			

Sample ID: **1307O18-001AMS**	Client ID:				Units: **mg/L**		Prep Date: **08/03/2013**		Run No: **249402**	
SampleType: **MS**	TestCode: **Nitrogen, Ammonia (as N) E350.1**				BatchID. **179366**		Analysis Date **08/06/2013**		Seq No: **5226597**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrogen, Ammonia (As N)	5.840	0.200	5.000	1.380	89.2	90	110			S

Sample ID: **1307O19-001AMS**	Client ID:				Units: **mg/L**		Prep Date **08/03/2013**		Run No: **249402**	
SampleType: **MS**	TestCode: **Nitrogen, Ammonia (as N) E350.1**				BatchID: **179366**		Analysis Date **08/06/2013**		Seq No **5226636**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrogen, Ammonia (As N)	7.070	0 200	5.000	1 980	102	90	110			

Sample ID: **1307O18-001AMSD**	Client ID:				Units: **mg/L**		Prep Date: **08/03/2013**		Run No: **249402**	
SampleType: **MSD**	TestCode: **Nitrogen, Ammonia (as N) E350.1**				BatchID: **179366**		Analysis Date: **08/06/2013**		Seq No: **5226600**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrogen, Ammonia (As N)	6 220	0.200	5.000	1.380	96.8	90	110	5.840	6.30	30

Qualifiers:

*	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: R249051

Sample ID: **MB-R249051**	Client ID				Units: **mg/L**		Prep Date:		Run No: **249051**	
SampleType: **MBLK**	TestCode: **T. Organic Carbon(TOC)(E415.1/SM5310B)**				BatchID: **R249051**		Analysis Date: **07/31/2013**		Seq No: **5219221**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Organic Carbon, Total	BRL	1.0								

Sample ID: **LCS-R249051**	Client ID:				Units **mg/L**		Prep Date:		Run No: **249051**	
SampleType: **LCS**	TestCode: **T. Organic Carbon(TOC)(E415.1/SM5310B)**				BatchID: **R249051**		Analysis Date: **07/31/2013**		Seq No. **5219220**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Organic Carbon, Total	24.54	1.0	25.00		98.2	90	110			

Sample ID: **1307O04-001GMS**	Client ID: **002**				Units: **mg/L**		Prep Date:		Run No. **249051**	
SampleType **MS**	TestCode **T. Organic Carbon(TOC)(E415.1/SM5310B)**				BatchID **R249051**		Analysis Date: **07/31/2013**		Seq No. **5219225**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Organic Carbon, Total	29.17	1.0	25.00	2.742	106	80	120			

Sample ID: **1307O04-001GMSD**	Client ID: **002**				Units: **mg/L**		Prep Date:		Run No: **249051**	
SampleType: **MSD**	TestCode: **T. Organic Carbon(TOC)(E415.1/SM5310B)**				BatchID: **R249051**		Analysis Date: **07/31/2013**		Seq No: **5219226**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Organic Carbon, Total	28.70	1.0	25.00	2.742	104	80	120	29.17	1.62	20

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: R249138

Sample ID: **MB-R249138**	Client ID:				Units: **mg/L**	Prep Date:	Run No **249138**
SampleType: **MBLK**	TestCode **Nitrogen, Nitrate-Nitrite (as N) E353.2**				BatchID: **R249138**	Analysis Date: **08/01/2013**	Seq No: **5221036**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite (as N)	BRL	0.050									

Sample ID: **LCS-R279138**	Client ID:				Units: **mg/L**	Prep Date:	Run No. **249138**
SampleType: **LCS**	TestCode: **Nitrogen, Nitrate-Nitrite (as N) E353.2**				BatchID **R249138**	Analysis Date: **08/01/2013**	Seq No: **5221038**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite (as N)	0.4830	0.050	0.5000		96.6	90	110				

Sample ID: **1307N52-004BMS**	Client ID:				Units: **mg/L**	Prep Date:	Run No. **249138**
SampleType: **MS**	TestCode: **Nitrogen, Nitrate-Nitrite (as N) E353.2**				BatchID: **R249138**	Analysis Date: **08/01/2013**	Seq No: **5221086**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite (as N)	0.9920	0.050	0.5000	0.4830	102	90	110				

Sample ID: **1307N63-001CMS**	Client ID:				Units: **mg/L**	Prep Date	Run No **249138**
SampleType: **MS**	TestCode: **Nitrogen, Nitrate-Nitrite (as N) E353.2**				BatchID: **R249138**	Analysis Date: **08/01/2013**	Seq No: **5221092**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite (as N)	0.7030	0.050	0.5000	0.2340	93.8	90	110				

Sample ID: **1307N52-004BMSD**	Client ID:				Units: **mg/L**	Prep Date	Run No: **249138**
SampleType: **MSD**	TestCode: **Nitrogen, Nitrate-Nitrite (as N) E353.2**				BatchID: **R249138**	Analysis Date: **08/01/2013**	Seq No: **5221089**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite (as N)	0.9830	0.050	0.5000	0.4830	100	90	110	0.9920	0.911	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: R249220

Sample ID **MB-R249220**	Client ID:			Units: **Pt-Co**	Prep Date:	Run No: **249220**
SampleType: **MBLK**	TestCode: **Color (E110.2/SM2120 B)**			BatchID: **R249220**	Analysis Date: **07/30/2013**	Seq No: **5222450**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Color	BRL	5									

Sample ID: **1307O04-001FDUP**	Client ID: **002**			Units: **Pt-Co**	Prep Date:	Run No: **249220**
SampleType: **DUP**	TestCode: **Color (E110.2/SM2120 B)**			BatchID: **R249220**	Analysis Date: **07/30/2013**	Seq No: **5222453**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Color	30.00	10						30.00	0	20	

Qualifiers:

*	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: R249246

Sample ID: **MB-R249246**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **249246**
SampleType: **MBLK**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R249246**	Analysis Date: **08/02/2013**		Seq No: **5222895**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	BRL	10.0									

Sample ID: **LCS-R249246**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **249246**
SampleType: **LCS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R249246**	Analysis Date: **08/02/2013**		Seq No: **5222896**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	502.2	10.0	500.0		100	90	110				

Sample ID: **1307N63-004DMS**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **249246**
SampleType: **MS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R249246**	Analysis Date: **08/02/2013**		Seq No: **5222899**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	415.5	12.5	375.0	23.64	105	90	110				

Sample ID: **1307O98-001CMS**	Client ID				Units: **mg/L**	Prep Date:		Run No: **249246**
SampleType: **MS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R249246**	Analysis Date: **08/02/2013**		Seq No: **5222924**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	421.0	12.5	375.0	25.85	105	90	110				

Sample ID: **1307N63-004DMSD**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **249246**
SampleType: **MSD**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R249246**	Analysis Date: **08/02/2013**		Seq No: **5222902**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	410.0	12.5	375.0	23.64	103	90	110	415.5	1.34	30	

Qualifiers:

*	Greater than Result value	·	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ABC Coke
Project Name: NPDES Permit Renewal 002
Workorder: 1307O04

ANALYTICAL QC SUMMARY REPORT

BatchID: R249250

Sample ID **MB-R249250**	Client ID:				Units: **mg/L**		Prep Date		Run No: **249250**	
SampleType: **MBLK**	TestCode: **Chlorine,T. Residual(E330.5/SM4500ClG)**				BatchID: **R249250**		Analysis Date: **08/01/2013**		Seq No: **5223046**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorine	BRL	0.200									

Sample ID: **LCS-R249250**	Client ID:				Units **mg/L**		Prep Date:		Run No: **249250**	
SampleType **LCS**	TestCode: **Chlorine,T. Residual(E330.5/SM4500ClG)**				BatchID: **R249250**		Analysis Date: **08/01/2013**		Seq No. **5223047**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorine	1.020	0.200	1.000		102	90	110				

Sample ID: **1307O04-001FMS**	Client ID: **002**				Units: **mg/L**		Prep Date:		Run No. **249250**	
SampleType: **MS**	TestCode: **Chlorine,T. Residual(E330.5/SM4500ClG)**				BatchID: **R249250**		Analysis Date **08/01/2013**		Seq No: **5223050**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorine	0.5100	0.200	0.5000		102	80	120				H

Sample ID: **1307O04-001FMSD**	Client ID: **002**				Units. **mg/L**		Prep Date:		Run No: **249250**	
SampleType. **MSD**	TestCode: **Chlorine,T. Residual(E330.5/SM4500ClG)**				BatchID: **R249250**		Analysis Date. **08/01/2013**		Seq No: **5223052**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorine	0.5070	0.200	0.5000		101	80	120	0.5100	0.590	40	H

Qualifiers:

*	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ABC Coke Division
Drummond Company, Inc.

Integrated
Spill Prevention Control and
Countermeasure & Storm Water
Best Management Practices Plan

900 Huntsville Avenue

Tarrant, Alabama

July, 2013

LITTLEJOHN ENGINEERING ASSOCIATES

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LEA Project No.: 20130423

Spill Prevention Control and Countermeasure Plan

ABC Coke Division

Tarrant, Alabama

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40 CFR PART 112 – OIL POLLUTION PREVENTION 55

1.0 CERTIFICATIONS

1.1 Management Approval

ABC Coke Division, Drummond Company Inc. in accordance with 40 CFR 112, Oil Pollution Prevention, approves this SPCC Plan. This SPCC Plan will be implemented in a timely and reasonable manner as described herein. All necessary manpower, equipment and materials required to expeditiously control and remove any harmful quantity of release will be granted.

Signed: Bob Mason

Bob Mason
Senior Vice President
ABC Coke Division, Drummond Company Inc.
900 Huntsville Avenue
Tarrant, Alabama 35217

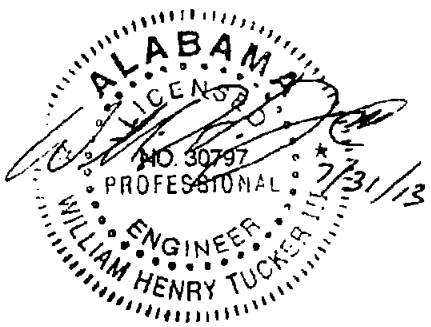
Date: 8/28/13

1.2 Signature of Professional Engineer

I do hereby certify that this Plan has been reviewed and evaluated in accordance with Code of Federal Regulations Title 40, Part 112 and good engineering practice. By means of this certification I attest:

(i) That I am familiar with the requirements of this part;
(ii) That I or my agent have visited and examined the facility;
(iii) That the Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards, and with the requirements of this part;
(iv) That procedures for required inspections and testing have been established; and
(v) That the Plan is adequate for the facility.

This certification in no way relieves the owner or operator from preparing or fully implementing such plan in accordance with Part 112.7 as required by the U.S. Environmental Protection Agency.



Signed: _____

William H. Tucker III, PE
Littlejohn Engineering Associates, Inc.
1935 21st Avenue South
Nashville, Tennessee 37212

Date: _____

2.0 PURPOSE/SUMMARY OF SPILL PREVENTION CONTROL AND COUNTERMEASURE PROGRAM

2.1 Purpose and Summary of SPCC Program

This summary is addressed to Alabama firms, persons, corporations, and other agencies, both public and private, which are likely to be affected by the title regulation. An overview of the regulation is followed by some legalistic detail useful to regulated owners.

The U.S. Environmental Protection Agency published, in the Code of Federal Regulations Title 40, Part 112 (revised January 2010) a regulation entitled "Oil Pollution Prevention" which may affect certain Alabama establishments including farms, businesses, industries, State Agencies and institutions, etc. The purpose of the regulation is to prevent oil spillage into U.S. waters.

The regulation governs premises that are involved in drilling, producing, storing, processing, refining, transferring, distributing, or consuming oil or oil products including vegetable or animal oil. These facilities include those having more than 1,320 gallons total above-ground storage capacity, or certain facilities having more than 42,000 gallons below-ground storage capacity. Thus, storage capacity, not actual or maximum-expected inventory, governs. A facility with one 1,200-gallon tank and no other storage, or with up to 24 55-gallon drums and no other storage, is exempt from the regulation. The regulations do not apply to facilities which cannot reasonably be expected to discharge oil into or upon U.S. waters.

Briefly, the regulation requires owners or operators of governed facilities to implement and maintain a Spill Prevention Control and Countermeasure Plan (SPCC Plan). The Plan must be reviewed and certified by a licensed Professional Engineer (P.E.). Additionally, the SPCC Plan must be reviewed and evaluated every five (5) years. The owner/operator of the facility must document completion of the review and evaluation, and must sign a statement whether or not the Plan will be amended. The following statement will suffice, "I have completed review and evaluation of the SPCC Plan for (name of facility) on (date), and will (or will not) amend the Plan as a result." Unless technical amendments are necessary, P.E. certification is not required for the five-year review and evaluation. An example five-year SPCC Plan review and evaluation certification page is presented as Exhibit No. 2.

The SPCC Plan must be amended within six (6) months whenever there is a change in the facility design, construction, operation, or maintenance that materially affects its potential for an oil discharge. Certification by a P.E. is required for any technical amendment to the SPCC Plan.

A copy of the SPCC Plan must be kept at the facility. The Plan need not and should not be sent to the Environmental Protection Agency unless the facility experiences either (a) a single oil spill of more than 1,000 gallons into natural waterways or adjoining shorelines or (b) two (2) oil discharges, more than 42 gallons each, which occur within any consecutive 12-month period. Any facility that discharges oil in such quantities that may violate applicable water quality standards or cause a film or sheen upon or discoloration of the surface water must immediately notify the National Response Center or the U.S. Coast Guard Marine Safety Office. There are no additional local or state reportable quantity triggers for reporting oil product spills. If either of these triggering events occurs, the facility must report the release to applicable local, State and Federal regulators and also submit a spill report along with a copy of the SPCC Plan to EPA Region 4 in Atlanta, Georgia within 60 days.

The SPCC Plan should set forth recent spill history at the facility, the kinds of equipment failure that could occur, the predicted movement and amount of major spillage, appropriate containment and/or diversionary structures or equipment (such as dikes, curbs, barriers, drainage systems, retention ponds, sorbent materials) furnished to prevent discharged oil from reaching waterways, and a spill contingency plan which specifies what steps would be taken in event of oil spillage. Further detail can be found in Section 112.7 of the Regulation.

2.2 Definitions and Amplifications

In these regulations, an *oil spill* is a discharge of oil, no matter how small, into U.S. waters. U.S. waters are the natural surface watercourses, no matter how small or how modified by man, of the United States. Oil spillage on land does not become an oil spill unless and until the oil reaches a waterway.

The term *oil* means oil of any kind or in any form, including, animals fats and greases, vegetable oil, and other oils including petroleum, fuel oil, sludge, synthetic oils, mineral oils, oil refuse and oil mixed with wastes other than dredged spoil.

Paragraphs 112.1(d)(2)(i) and 112.1(d)(2)(ii) of the Regulation specify facilities that are exempt from Part 112-Oil Pollution Prevention.

> 112.1(d)(2)(i) any facility which the completely buried storage capacity of the facility is 42,000 gallons or less of oil; and,
>
> 112.1(d)(2)(ii) any facility which the aggregate above ground storage capacity of the facility is 1,320 gallons or less of oil.

Applicability of the Regulation is determined by oil storage capacity, not oil inventory. Only containers of oil with a capacity of 55 gallons or greater are counted in the capacity determination. Oil filled electrical, operating, or manufacturing equipment containing 55 gallons or greater oil are subject to the rule; however, oil filled electrical equipment is not considered an aboveground storage container and therefore is not subject to provisions specific to storage containers (e.g. non-destructive integrity testing). Empty drums on hand, awaiting pick-up for recycling or return to vendor, are not reasonably included.

Some larger institutions, if they wish, may be able to subdivide their total facility provided that the parts thereof are physically remote from one another. For example, a garage facility distant from a steam plant, or two well-separated non-interconnecting power plants, might be treated as two separate facilities. The purpose of such subdivision should be to simplify work, e.g. by reducing overall plan complexity. If the sub-parts are adjacent or if they occupy substantially the same site, obviously, no subdivision should be made.

Plan formulators should closely read Section 112.7, noting that "shall" and "must" provisions are mandatory; "should" provisions are discretionary, not required.

Legalisms are unavoidable wherever any regulation is concerned and owners subject to this Regulation need to be aware of them in their own self-interest. However, owners are encouraged to hold in mind the Regulation's purposes: to prevent oil spills and to be prepared for effective action if spillage does occur. An owner who accomplishes these goals need not worry whether he or she has inventoried every quart of oil on his premises or has provided every known protective measure in his Plan. Conversely, exempt owners having appreciable oil storage are encouraged to use proper preventive measures and to adopt a good contingency plan notwithstanding their exemption.

3.0 APPLICABILITY AND CONFORMANCE

3.1 Applicability

The ABC Coke Division, Drummond Company Inc. (ABC Coke) facility in Tarrant, Alabama is subject to the requirements of 40 CFR 112. The facility is a non-transportation related, onshore facility engaged in storing, consuming and/or distributing oil and/or oil products which, due to its location, could reasonably be expected to discharge oil in quantities that may be harmful, into or upon, the navigable waters of the United States or that may affect natural resources of the United States. More than 1,320 total gallons of oils are stored above ground at the subject site.

ABC Coke receives coal and manufactures coke at the Tarrant facility, and operates an onsite wastewater treatment plant to treat process wastewater from the coking operation. This wastewater treatment plant, along with storm water and non-storm water discharges from other areas of the plant, are discharged from a facility retention basin in accordance with the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) Permit AL0003417 as issued by the Alabama Department of Environmental Management (ADEM). Development of a Best Management Practices (BMP) Plan is a requirement of NPDES Permit AL0003417, issued March 3, 2009, and this document was prepared to address the requirements of both the SPCC Plan and BMP Plan.

Mr. Bill Osborn, Environmental Coordinator, serves as the primary contact and person responsible for day-to-day implementation of the SPCC/BMP Plan. Mr. Osborn serves as the Pollution Prevention Team leader and is tasked with ensuring compliance with all aspects of the individual NPDES permit issued to ABC Coke. Specific responsibilities, such as source area inspections or discharge sample collection, may be delegated to other ABC Coke staff members, as necessary. Pollution Prevention Team members include the Byproducts personnel listed in Section 6.1 and the Engineering Manager.

3.2 Conformance and Deviations

This Integrated SPCC/BMP Plan was developed for the ABC Coke facility in Tarrant, Alabama following the requirements of Part 112.7 General Requirements for Spill Prevention, Control and Countermeasure Plans, Part 112.8 Spill Prevention, Control and Countermeasure Plan Requirements for Onshore Facilities (Excluding Production Facilities) and NPDES Permit AL0003417, Part 2.A. Any deviations from specific regulatory requirements are addressed in the following table.

With the preparation and full implementation of this SPCC Plan, the ABC Coke facility in Tarrant, Alabama will be in substantial compliance with the requirements of 40 CFR, Part 112. Further, ABC Coke will have satisfied the general requirements of the NPDES Permit and requirement to develop and implement the BMP Plan upon certification and implementation of same.

ABC Coke conducts manufacturing at 900 Huntsville Avenue. When reference is made to ABC Coke in this SPCC/BMP Plan, it refers to all manufacturing operations at the facility.

A cross-reference table with 40 CFR 112 specific requirements and the location where addressed in this document is presented below.

Rule	Description of Rule	SPCC Plan Section
§112.7(a)(1)	Discuss conformance to SPCC requirements in 112.7.	Section 3
§112.7(a)(2)	Deviations from Plan requirements. Discuss reasons for nonconformance (limited to listed requirements) and alternative methods to achieve equivalent environmental protection.	Section 3
§112.7(a)(3)	Facility characteristics that must be described in the Plan. Facility diagram with location & contents of each container, transfer stations and connecting piping.	Section 4, 5, 6 and Exhibit 4
§112.7(a)(3) (i)	Type and quantity of oil stored in each container (fixed containers 55 gallons or more)	Section 5
§112.7(a)(3) (ii)	Spill (discharge) prevention measures for routine handling of oils loading & unloading	Section 5
§112.7(a)(3) (iii)	Secondary containment and discharge or drainage control measures	Section 5
§112.7(a)(3) (iv)	Countermeasure, spill response and clean-up (both facility and/or contractor)	Section 5 and 6
§112.7(a)(3) (v)	Disposal methods and legal requirements	Section 5
§112.7(a)(3) (vi)	Contact list and phone numbers for facility response coordinator, National Response Center and other required agencies (State) and contractors (if needed)	Section 6
§112.7(a)(4)	Spill Reporting Information in the Plan – discharge notification form	Section 6
§112.7(a)(5)	Emergency Procedures – describe "readily usable" procedures if a discharge occurs	Section 5 and 6
§112.7(b)	Fault analysis – describe spill prediction of the direction, flow rate & total quantity.	Section 5 and Exhibit 4
§112.7(c)	Secondary containment and/or diversionary structures – provide to prevent a discharge	Section 5 and 6
§112.7(d)	Oil Spill Contingency Plan. If secondary containment is not practicable, plan must explain 1) why measures are not practicable for the bulk storage containers 2) conduct periodic container integrity testing (visual & other) and integrity & leak testing of valves and piping, 3) develop Contingency Plan per Part 109, and 4) written commitment of resources.	Section 5 and 6
§112.7(e)	Inspections, tests, and records. 1) Written procedures for inspections and tests, 2) signed records and 3) records kept for 3 years.	Section 8 and Exhibit 6
§112.7(f)	Employee training and discharge prevention procedures.	Section 7 and Exhibit 8
§112.7(f)(1)	Train oil handling personnel on 1) operation & maintenance of equipment to prevent discharge. 2) discharge procedures, 3) regulations, 4) facility operation and 5) SPCC Plan.	Section 7 and Exhibit 8
§112.7(f)(2)	Designate accountable individual for discharge prevention	Section 7 and Exhibit 8
§112.7(f)(3)	Document annual training for oil handling personnel. Keep records for 3 years.	Section 7 and Exhibit 8
§112.7(g)(1)	Security. Fully Fenced. Gates locked or guarded	Section 4
§112.7(g)(2)	Adequate security measures (typical locks) on container flow, drain and other valves	Section 4 and 5
§112.7(g)(3)	Pump starter controls locked in off position, access controlled	Section 4 and 5
§112.7(g)(4)	Cap or blind flange out-of-service load or unload connections	Section 4 and 5
§112.7(g)(5)	Lighting appropriate for facility	Section 4 and 5
§112.7(h)(1)	Tank Car & Tank Truck Loading/Unloading Rack. Adequate secondary containment or quick drainage system. If not practicable from an engineering standpoint, must provide a Contingency Plan.	Section 4 and 5
§112.7(h)(2)	Alarm or warning systems to prevent vehicles from departing before disconnection of lines	Section 4 and 5
§112.7(h)(3)	Inspect vehicle drain valves prior to filling and departure	Section 4 and 5
§112.7(i)	Brittle fracture evaluation requirements if a field-erected tank is repaired or altered	Section 4, 5 and 8
§112.7(j)	Conformance with State requirements.	Not Applicable**

Rule	Description of Rule	SPCC Plan Section
§112.7(k)	Qualified Oil-filled Operational Equipment. Qualification Criteria—Reportable Discharge History. Alternative Requirements to General Secondary Containment.	Not Applicable
§112.8(b)(1) & §112.12(b)(1)	Facility drainage. Diked Storage Area Drainage. Drain valves closed or manual sump pump in diked areas.	Section 5 and Exhibit 4
§112.8(b)(2) & §112.12(b)(2)	Dike drain valve open/close design. Inspect and drain uncontaminated storm water.	Section 5
§112.8(b)(3) & §112.12(b)(3)	Design facility drainage for undiked areas into pond, lagoon or basin	Section 5 and 6 and Exhibit 4
§112.8(b)(4) & §112.12(b)(4)	If undiked area is not contained, equip final discharge with ditch diversionary system	Section 5 and 6 and Exhibit 4
§112.8(b)(5) & §112.12(b)(5)	Backup pump for lift station as necessary	Section 5 and 6
§112.8(c)(1) & §112.12(c)(1)	Bulk storage containers. Compatible containers	Section 4 and 5
§112.8(c)(2) & §112.12(c)(2)	Secondary containment with sufficient freeboard (document calculations) and sufficiently impervious	Section 5
§112.8(c)(3) & §112.12(c)(3)	Drainage of rainwater and adequate records if drain into storm drain or navigable waters	Section 5
§112.8(c)(4) & §112.12(c)(4)	Underground Storage Tanks – protect with corrosion protection system and regular leak test	Not Applicable*
§112.8(c)(5) & §112.12(c)(5)	Partial Buried or Bunkered Tanks – protect with corrosion protection system	Not Applicable*
§112.8(c)(6) & §112.12(c)(6)	AST Integrity Testing. Combine visual inspection with another testing technique on a regular schedule (documented per industry standards or as determined by the PE in the plan) and for material repairs. Inspect tank, support and foundation. Keep records	Section 4, 5 and 8
In preamble (page 47120)	For smaller shop-built containers in which internal corrosion poses minimal risk of failure; which are inspected at least monthly; and for which all sides are visible (the container has no contact with the ground), visual inspection alone might suffice, subject to good engineering practice. The plan must explain why visual integrity testing alone is sufficient.	Section 4, 5 and 8
§112.8(c)(7) & §112.12(c)(7)	Internal heating coils monitored for leakage	Not Applicable
§112.8(c)(8) & §112.12(c)(8)	Containers engineered to avoid discharges. Provide one of the following alarm devices (or explain nonconformance if procedures are used as an alternative to alarm systems):	Section 4, 5 and 8
§112.8(c)(8) (i)	High liquid level alarm with audible or visual signal or	Section 4, 5 and 8
§112.8(c)(8) (ii)	High liquid level pump cutoff device or	Section 4, 5 and 8
§112.8(c)(8) (iii)	Direct audible or code signal communication or	Section 4, 5 and 8
§112.8(c)(8) (iv)	A fast response system with personnel monitoring gauges and filling.	Section 4, 5 and 8
§112.8(c)(8) (v)	Regular test liquid level sensing devices	Section 4, 5 and 8
§112.8(c)(9) & §112.12(c)(9)	Observe effluent treatment discharge for upsets	Section 8
§112.8(c)(10)&§112.12(c)(10)	Promptly correct visible leaks from container (seams, gaskets, pumps, valves) and dike	Section 4, 5 and 8
§112.8(c)(11)&§112.12(c)(11)	Mobile or Portable oil storage container secondary containment	Section 5
§112.8(d)(1) & §112.12(d)(1)	Facility transfer operations, pumping, and facility process. Provide new buried lines with a protective wrapping, coating and corrosion protection.	Not Applicable*
§112.8(d)(2) & §112.12(d)(2)	Cap or blind flange out-of-service pipe and mark origin	Section 4, 5 and 8
§112.8(d)(3) & §112.12(d)(3)	Pipe support design to minimize abrasion and allow for expansion / contraction	Section 4, 5 and 8
§112.8(d)(4) & §112.12(d)(4)	Regularly inspect valves, piping and equipment.	Section 4, 5 and 8
112.8(d)(4) & §112.12(d)(4)	Conduct integrity and leak testing on buried piping at installation and following repairs	Not Applicable*
§112.8(d)(5) & §112.12(d)(5)	Warn vehicles of aboveground piping and other oil transfer operations	Section 4

Rule	Description of Rule	SPCC Plan Section
§112.9 & §112.13	Requirements for onshore production facilities.	Not Applicable*
§112.10 & §112.14	Requirements for onshore oil drilling and workover facilities.	Not Applicable*
§112.11 & §112.15	Requirements for offshore oil drilling, production, or workover facilities.	Not Applicable*

*Aboveground bulk oil storage containers at this facility include numerous field constructed and shop built above ground storage tanks, 55-gallon drums, and plastic totes. SPCC regulatory requirements for secondary containment and storm drainage control measures apply the majority of these storage containers, and secondary containment is provided in the form of sized secondary containment, including spill pallets, curbing and guttering which drains to sumps equipped with liquid transfer pumps, a concrete lined sedimentation basin which allows for the skimming and retention of any free-floating oil, followed by a retention basin which is fitted with a manually operated gate valve. This basin, in conjunction with the concrete lined sedimentation basin, allows for the collection, retention and removal of oil resulting from a spill or release. SPCC regulatory requirements for high level alarms and/or high level liquid pump cutoff devices applicable at this facility are limited to bulk containers permanently mounted or equipped with pressure pumps or product transfer piping. No buried pipe is present at the facility.

**The State of Alabama has not established any rules, regulations, or guidelines requiring more stringent prevention standards.

4.0 GENERAL FACILITY DATA

4.1 Facility Description

1.	COMPANY NAME:	ABC Coke Division, Drummond Company Inc.
	MAILING ADDRESS:	P.O. Box 10246 Tarrant, Alabama 35202
	TELEPHONE:	(205) 849-1342
	FACSIMILE:	(205) 849-1391
	SR. VICE PRESIDENT:	Bob Mason
	PLANT ENVIRONMENTAL MANAGER:	Mark Poling
2.	CORPORATE OWNERSHIP:	Drummond Company, Inc.
	MAILING ADDRESS:	P.O. Box 10246 Tarrant, Alabama 35202
	TELEPHONE:	(205) 849-1342
3.	FACILITY OPERATION:	7 days per week, 24 hours per day, 3 shifts.

4.2 Facility Location

1.	SITE ADDRESS:	900 Huntsville Avenue Tarrant, Alabama 35217
2.	LOCATION MAP:	see Exhibit No. 3
	COORDINATES:	33° 35' 00" N 86° 46' 48" W
	NEAREST SURFACE WATER BODY:	Five Mile Creek

4.3 Physical Layout and Oil Storage Locations

A general site plan diagram showing the physical layout and the oil storage locations within the facility are presented as Exhibit 4.

4.4 Facility Security and Lighting

1. All manufacturing processes are conducted under roof or within process units which are enclosed, covered and/or provided with improved surfacing and hydraulic control. Entrance to the facility is controlled by security staff located at the main gate, which is the only point of entry to the site. This security post is staffed 24 hrs per day, 7 days per week to avoid unauthorized personnel from entering the facility and in order to prevent unauthorized access to oil storage and handling areas.

2. Oil storage and use locations and associated equipment are visible to ABC Coke personnel during hours of operation.

3. Oil storage facilities are secured from unauthorized access through the use of locks, physical structures and restricted access, as appropriate.

4. Sufficient lighting is provided throughout the facility to allow for the visual discovery of spills that could occur at any time during any 24-hour period.

5. Tanks, pumps and valves are capable of being locked when not in use.

6. Security cameras are strategically located across the site.

7. Internal Emergency Response Teams have been trained in hazard recognition, firefighting and spill recognition/spill response, such that any release may be promptly identified and responded to in hopes that a release of oil or other pollutant may be contained and collected at the source and avoid any threat to waters of the U.S.

4.5 Bulk Storage Container Design

Above ground bulk liquid storage containers at this facility consist of field constructed and shop-built welded steel tanks containing oil, diesel fuel, unleaded gasoline and various oil products, including motor oil, hydraulic fluid, grease and similar maintenance-related products. Additional aboveground storage tanks containing ammonia liquor, coal tar, BTX Light Oil, wash oil, caustic, refractory products, dust suppressant products and water treatment additives are located across the site. The materials and construction of these liquid storage containers are compatible with the materials stored and the conditions of storage such as temperature and pressure.

SPCC regulatory requirements for secondary containment and storm drainage control measures are met with impermeable containment structures, as well as sufficiently impermeable roof, floors and/or walls of the respective storage location, including those installations provided with transfer pumps, providing adequate secondary containment. Field constructed ASTs are located on site, and include the Thickener Tank, which receives water which may contain various oil products or process chemicals from product storage and handling areas provided with collection sumps and pumping systems, coal tar storage tanks, and ammonia liquor storage tanks. No underground storage tanks (UST) are located on site.

High level alarms and/or high level liquid pump cutoff devices are required for this facility. Bulk oil tanks are provided with local sight gauges to monitor filling and prevent loss of product. ABC Coke SOP's require that site gauge readings be confirmed with gauging stick measurement prior to filling tank. Tank filling procedures require that ABC Coke personnel observe the loading and unloading of each tank.

4.6 Current Storage Facilities Testing Procedures

1) VISUAL INSPECTION

No equipment containing 55 gallons or more of oil in operational use subject to 40 CFR 112 is known to be located within the facility. Pole mounted electrical transformers are believed to contain <55 gallons of fluid. Alabama Power owns and operates an electrical substation adjacent to the Powerhouse and emergency generator diesel fuel AST. This substation is visible to ABC Coke staff operating in the area, and any significant loss of oil from any of these units would likely result in power interruption to the process and warrant immediate investigation. Any release of oil from this area would likely enter a nearby sump which is pumped to the Thickener Tank. The electrical substation is subject to casual visual inspection while conducting monthly inspection of the emergency generator diesel fuel AST.

Aboveground oil storage containers, including bulk storage tanks, plastic totes and 55-gallon drums, are located in secured access areas of the plant. With the exception of any vertical ASTs where the bottom shell is in contact with the concrete slab, all sides of each bulk container are visible for inspection and leakage or spillage would be noticeable almost immediately on the concrete floor, secondary containment area, or ground surface. Casual visual inspection of each oil storage and use location occurs throughout each work day. Formal monthly inspections of the bulk oil tanks are performed by ABC Coke staff and documented.

2) BULK CONTAINER TESTING

SPCC regulations require regularly scheduled integrity testing of each aboveground container, regardless of size. The frequency and type of testing must consider the container size and design (such as floating roof, skid-mounted, elevated, or partially buried). Visual inspection must be combined with another testing technique such as hydrostatic testing, radiographic testing, ultrasonic testing, or another system of non-destructive testing.

The SPCC may deviate from the tank testing requirements, if equivalent environmental protection is provided by some other means of spill prevention control or countermeasure. Because drums and totes are only used on a temporary basis, visual inspection alone will be sufficient for these. A catastrophic release from any one of these containers would remain in the secondary containment and/or not flow from the building to impact surface waters.

Tank inspection and integrity testing shall be conducted in accordance with industry standards Steel Tank Institute (STI) Standard SP001 for Shop Fabricated ASTs and portable containers; and American Petroleum Institute (API) Standard 653 for Field Constructed ASTs. As a part of formal SPCC monthly inspections, tank surfaces shall be inspected for signs of corrosion. For shop-fabricated AST's that require formal external or internal inspection, the inspection shall be performed by an inspector trained and certified in accordance with STI standards. For field constructed ASTs, integrity testing shall be performed by professional structural engineers or professionals trained and certified in accordance with API standards. At this time, there are no field constructed oil storage tanks on the ABC Coke site. The recommended inspection schedule for shop fabricated ASTs and portable containers along with copies of the STI inspection checklists are included in Exhibit No. 7. Documentation of such tank testing shall be kept in Exhibit No. 7.

Field-constructed aboveground containers that have undergone a repair, alteration or change in service that might affect the risk of a discharge due to brittle fracture or other catastrophe should be evaluated to assess the risk of such a discharge. An evaluation including brittle fracture analysis is required for a tank that has discharged oil or failed due to brittle fracture or other catastrophe. Unless the original design shell thickness of the tank is less than 0.5 inches, evidence of this evaluation should be documented in the SPCC Plan. Storage tanks with a maximum shell thickness of 0.5 inches or less are not generally considered at risk for brittle fracture.

No field constructed above ground containers or tanks with a shell thickness of greater than 0.5 inches and containing oil are located on the ABC Coke, Tarrant, Alabama site.

Other content loss control measures include monitoring for filling, inventory records, and measurement of tank volume daily.

3) VALVE AND PIPING

ABC Coke utilizes significant amounts of aboveground piping to distribute process chemicals, oil and water containing oil within the manufacturing plant. This piping is predominantly located in the byproduct manufacturing area, where any spillage would be contained on reinforced concrete pavement surfaces and directed to the biological wastewater treatment plant for processing. Secondary containment structures located outside the byproducts manufacturing area are provided with manually operated drain valves or are blind sumps which must be manually pumped; any product piping outside those containment structures and not within the byproducts area could result in the release of oil to the ground surface, which would then flow overland to nearby storm drains or perimeter drainage swales leading to the concrete lined sedimentation basin and retention basin. All valves and aboveground piping are to be adequately supported and protected from damage from vehicular traffic, vibration, expansion/contraction or other means. Aboveground valving and piping shall undergo visual inspection for corrosion and leaks during the monthly SPCC inspection. All piping must also be inspected during installation, modification, or repair. Other content loss control measures associated with product piping include inventory records. Inventory records should be monitored for evidence of leaks.

Facilities must also cap or blank-flange terminal connections when piping is not in service and warn all vehicles entering the facility about above ground piping or other oil transfer operations.

4.7 History of On-Site Spill Events

There have been zero (0) documented spill incidents associated with oil storage and use within the past three (3) years at the ABC Coke, Tarrant facility. Spills or leaks within improved containment structures are typically managed by manual pumping into an appropriate container for subsequent management, or by transfer to the Thickener Tank, where it can be managed or returned to the process.

5.0 POTENTIAL POLLUTION SOURCES, AREAS, CONTAINMENT FACILITIES, AND DRAINAGE PATTERNS

5.1 Potential Pollution Sources

SOURCE	NAME	DESCRIPTION	SPCC REG.*
Source 1	Ammonia Liquor Storage Tanks #1	• Two (2) steel aboveground 250,000-gallon Ammonia Liquor Storage Tanks	X
Source 2	Coal Tar Storage Tanks	• Steel aboveground 174,000-gallon Coal Tar storage tank • Steel aboveground 230,000-gallon Coal Tar storage tank • Two (2) steel aboveground 9,400-gallon caustic storage tanks (insulated)	X
Source 3	Thickener Tank	• One 587,000 gallon ground storage tank containing plant wastewater for return to byproducts manufacturing process	X**
Source 4	Tar Separator Tank	• Steel aboveground 107,000-gallon Ammonia Liquor storage tank NOT IN SERVICE • Tank cleaned by outside contractor, may contain rainwater	N.I.S.
Source 5	BTX Light Oil Storage	• Two (2) steel aboveground 42,000-gallon BTX Light Oil storage tank	X
Source 6	Tanker/Truck Loading Area	• Tanker Truck (largest compartment 2,500 gallons) • Railroad Tanker Car (43,500 gallons)	X
Source 7	Wash Oil Tank Farm	• Steel aboveground 20,000-gallon new wash oil tank • Steel aboveground 10,000-gallon old wash oil tank • Steel aboveground 20,000-gallon caustic feed tank • Steel aboveground 10,000-gallon caustic mix tank	X
Source 8	Gasoline Tank	• Steel aboveground 1,000-gallon gasoline tank	X
Source 9	Emergency Diesel Tank	• Steel aboveground 8,245-gallon emergency diesel storage tank • Nalco water treatment chemical IBCs adjacent to powerhouse	X
Source 10	Refractory Tank	• Steel aboveground 6,000-gallon refractory liquid tank (not oil) • Steel aboveground 200-gallon refractory liquid tank (not oil)(on top of oven platform)	X**
Source 11	Silo Diesel Tank	• Steel aboveground 25,000-gallon diesel tank	X
Source 12	Locomotive Fuel Tanks	• Steel aboveground 20,000-gallon diesel tank • Steel aboveground 1,000-gallon diesel tank	X

Source 13	Container Repair Building	• Steel aboveground 500-gallon used oil tank • Two (2) steel aboveground 500-gallon new oil tanks • Two (2) steel aboveground 1,000-gallon new oil tanks	X
Source 14	Lid Seal Tank	• Steel aboveground 6,000-gallon lid seal tank containing refractory product (not oil)	X**
Source 15	Portable Containers	• Includes welded steel & poly drums, poly totes and portable storage tanks <500 gal. • Various containers with volumes ranging from 55 to 500 gallons, containing fuel or maintenance-related oil products (e.g. grease)	X
Source 16	Process Area	• Process equipment and contents • Wastewater treatment chemicals and additives in IBCs adjacent to plant	X**
Source 17	Coal/Coke Storage Yard	• Coal storage piles • Coke storage piles • Scrap, breeze and mixed product storage • Byproduct processing • Nalco flocculant IBC at sedimentation basin outlet pipe to retention basin • Nalco dust suppressant additive AST near west access road and contractor area	X**
* Indicates source or portions of the source fall under the requirements of 40 CFR Part 112. ** The primary source is not petroleum based.			

Source 1 includes two (2) 250,000 gallon ammonia liquor storage tanks. These tanks are located near the southeast corner of the site and at the south end of the Byproduct plant. Concentrated ammonia liquors are generated by the coking process, and contain ammonia and ammonium compounds. Ammonia liquor would not contain oil under normal conditions. The tanks are located within curbed containment, common to that constructed for Source 2, such that adequate containment exists. This source is included in Source Area A, which denotes the Byproduct Plant.

Source 2 includes the two (2) coal tar storage tanks, with capacities of 174,000 and 230,000 gallons, respectively. Coal tar is another byproduct of coke making, and is a highly viscous liquid of complex chemical composition which may behave like oil in the environment. Two (2) 9,400 gallon caustic tanks are also located in this area, with is curbed and contained as described in Source 1 above. Two (2) ammonia stills are also located in this area, and are included in the Source Area A.

Source 3 is the 587,000 gallon tank used for collection of mixed wastewater and storm water from various areas of the plant, including some oil storage and use areas. This tank is not used for the storage of oil, although some oil or diesel fuel may be entrained in the water pumped to this unit, which is also referred to as the Thickener tank. This tank is included in Source Area A.

Source 4 represents the 107,000 gallon welded steel AST previously used as a tar separator tank. The tank is located within a curbed concrete area, sloped to drain to the process. This tank is no longer in service, and has been cleaned by outside contractors. This tank is included in Source Area A.

Source 5 is the two (2) 42,000 gallon horizontal ASTs containing BTX Light Oil. These tanks are situated within a reinforced concrete secondary containment basin, which is provided with a manually operated drain valve connected to the adjacent railcar/tanker offloading area. The railcar/tank truck loading area, identified as **Source 6**, is adjacent to

the BTX Light Oil containment area, and is provided with a spill control sump and pumping system in the event of a spill during product loading. These tanks and associated loading area are included in Source Area A.

Source 7 represents the wash oil tank farm, where four (4) horizontal ASTs are located. Two (2) wash oil tanks, with capacities of 10,000 and 20,000 gallons, are located on the south side of an internal divider wall within the containment basin, while two (2) caustic tanks of similar capacity are located on the north side of the divider wall. The oil containment capacity is approximately 25,000 gallons, while the caustic containment is approximately 30,000 gallons in size. Each basin is manually pumped as needed, with any liquids being directed back to the Thickener tank for introduction into the process. These tanks are included in Source Area A.

Source 8 consists of one (1) 1,000 gallon welded steel AST containing unleaded gasoline for use in plant vehicles. This tank is located within a masonry secondary containment, which is equipped with a manually operated ball valve capable of being locked in the closed position. Any incidental spillage at this fueling location could, during a storm event, release pollutants to storm water, which flows north then west toward the sediment basin and retention pond, where any free floating oil could be recovered prior to discharge through Outfall 002. This tank, as well as the miscellaneous material storage located immediately to the south of the tank and north of Source 15, is included in Source Area A.

Source 9 is a single horizontal AST containing diesel fuel for emergency power generation. This tank, with a capacity of approx. 8,245 gallons, is located adjacent to the power house and Alabama Power electrical substation. The tank is provided with secondary containment, and a manually operated drain valve is located in the walkway at the northeast corner of the containment basin. The discharge from this valve is piped to a Byproduct Plant area catch basin, which can be pumped back to the Thickener Tank for return of liquids to the process. In the event the drain valve is left open and the transfer pump is inoperable, discharge of spilled fuel could migrate to the concrete sedimentation basin and retention pond ahead of outfall 002. Therefore, it is imperative that this, and all other, containment basin drain valves be maintained in the closed, locked position unless designated staff are actively draining the containment in accordance with established ABC Coke SOPs. This tank is also located within Source Area A.

Source 10 and Source 14 represents the lid seal refractory tanks located in the Coke Oven area of the plant (Source Area B). This refractory product is a slurry of water and clay compounds used to seal the ovens to prevent fugitive emissions during the coking process. Neither the 6,000 gallon welded steel ASTs located at ground level adjacent to the two oven batteries, nor the smaller capacity tanks located near the top of the units, contains any oil. While not provided with secondary containment, a release of refractory material to the ground surface in this area is unlikely to migrate from the spill area, which is intentionally drained to the Quench Basin where it is evaporated.

Source 11 is the 25,000 gallon silo diesel fuel tank. This vertical welded steel AST is located within a reinforced concrete containment wall equipped with a spill collection sump and transfer pump with float switch. In the event of incidental spillage, leakage or rainfall at a rate less than the capacity of the pumping system, the pump (operating properly) would direct liquids to the Thickener Tank. However, due to inadequate height/capacity, the containment wall does not meet the sized secondary containment requirement of §112.8. This tank is located adjacent to a heavy truck haul road and construction of sized secondary containment at the storage tank is impracticable. However, the concrete lined sedimentation basin just upstream of the retention basin and Outfall 002 does serve as secondary containment. The concrete basin, measuring approx. 70 feet x 90 feet, is capable of retaining approx. 47,000 gallons of oil at a depth of one (1) foot. This tank, as well as all other processes and operations west of the coke ovens, are considered as being within Source Area C.

Source 12 and Source 13 represent the locomotive fuel tank and container repair building, respectively. Two (2) horizontal ASTs containing diesel fuel are located just south of the container repair building, and are situated over a curbed concrete area with integral spill collection sump, pump and transfer piping. A trench drain enters this sump from the container repair building, where equipment maintenance takes place and considerable bulk oil storage takes place. The diesel fuel ASTs at Source 11 are 20,000 and 1,000 gallons capacity, while containers inside the container repair building range from 55 gallon drums to 500 gallon welded steel AST. In the event of incidental spillage, leakage or rainfall at a rate less than the capacity of the pumping system, the pump (operating properly) would direct liquids to the Thickener Tank. However, due to inadequate height/capacity, the curbed containment slab at Source 11 does not meet the sized secondary containment requirement of §112.8. However, the concrete lined sedimentation basin just

upstream of the retention basin and Outfall 002 does serve as secondary containment, with a maximum spill control capacity of approx. 47,000 gallons of oil as calculated above. Source 11 and 12 are included in Source Area C.

Source 15 consists of a variable number of portable containers and excess drum storage located near the north end of the Byproducts Area and Source 8 gasoline AST. Drums, totes and portable tanks used to service rolling stock and pushers may be found in this location. While many of these containers are stored inside the building, excess inventory may be found outside that building within a fenced enclosure. Any incidental spillage at this location could, during a storm event, release pollutants to storm water, which flows north then west toward the sediment basin and retention pond, where any free floating oil could be recovered prior to discharge through Outfall 002. This storage area is included in Source Area A.

Source 16 denotes the Processing Area, which includes that portion of the yard which is engaged in Byproduct processing and production and capable of being drained to the onsite biological wastewater treatment plant. For purposes of the BMP Plan, the outdoor storage of surplus materials and equipment, such as structural steel products, cabling, wiring, electrical motors and other durable goods essential to the operation and upkeep of the manufacturing plant are included in the Source 16, Processing Area description. Within the contained portion of the process area, there is little or no opportunity for the uncontrolled runoff of storm water and any potential pollutants, as all precipitation falling on this portion of the plant which comes into contact with the process is either pumped to the Thickener for reuse or is pumped to the wastewater treatment plant for processing. For the area surrounding the Processing Area, ABC Coke utilizes common-sense material storage practices (e.g. tarps; shrinkwrap; materials not stored in areas subject to concentrated flows; maintain products in sealed, original containers), mechanical sweeping, periodic and routine inspection and similar practices to minimize the opportunity for exposure to storm water. This area is included in Source Area C.

Source 17 represents the coal/coke storage yard, which comprises the western margin of the site. Coal, coke, breeze, mixed material stockpiles and "scrap" may be found in this source area. Covered byproduct bins are stored mid-area, with the coke ovens forming the east boundary and property line forming the west boundary. In addition to material storage, the coke silos, truck loading, truck quenching and coke processing (sizing) are conducted in this area. A contractor staging and work area are located across the perimeter roadway to the west; extensive storage of heavy equipment and similar items may be found in this area. The storm water sedimentation basin and retention basin are located at the northwest corner of the area, and a dust suppression system and additive tank are located alongside the perimeter drive and just east of the contractor area. This storage area is included in Source Area C.

Best Management Practices

The best management practices in use at the ABC Coke facility to minimize the opportunity for release of potential pollutants to the environment from each source are outlined below.

SOURCE	DESCRIPTION	BEST MANAGEMENT PRACTICES
Source 1	Ammonia Liquor Storage Tanks #1	• Located within curbed and contained Byproducts Area • Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 2	Coal Tar Storage Tanks	• Located within curbed and contained Byproducts Area • Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 3	Thickener Tank	• Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 4	Ammonia Separator Tank (N.I.S.)	• Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 5	BTX Light Oil Storage	• Tanks located in reinforced concrete secondary containment basin, adjacent to loading rack • Pumped to Thickener Tank as needed • Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks. • Continuously monitor the oil dispensing to tankers. • Inspect all storm water prior to discharge from the containment. • Have absorbent material on hand in the area for immediate spill clean-up.

SOURCE	DESCRIPTION	BEST MANAGEMENT PRACTICES
Source 6	Tanker/Truck Loading Area	• Provided with containment sump and transfer pump/piping to Thickener Tank, as needed • Continuously monitor the filling of tanks • Check all nozzles and valves after each use and at other regular intervals for closure and leaks. • Verify that there are no leaks from loading equipment. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 7	Wash Oil Tank Farm	• Tanks located in reinforced concrete secondary containment basin, adjacent to loading rack • Pumped to Thickener Tank as needed • Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks. • Continuously monitor filling of new oil and caustic tanks. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 8	Gasoline Tank	• Masonry containment w/ lockable drain valve • Protected from traffic using pipe bollards • Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks or corrosion. • Continuously monitor fuel dispensing operations. • Continuously monitor the tank filling operations. • Inspect all storm water prior to discharge from containment; complete controlled discharge report form • Have absorbent material on hand in the area for immediate spill clean-up.
Source 9	Emergency Diesel Tank	• Containment drain valve in sump at NW corner of containment; drains to Thickener Tank (manual) • Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks or corrosion. • Continuously monitor fuel dispensing operations. • Continuously monitor the tank filling operations. • Inspect all storm water prior to discharge from containment. • Have absorbent material on hand in the area for immediate spill clean-up.

SOURCE	DESCRIPTION	BEST MANAGEMENT PRACTICES
Source 10	Refractory Tanks	• Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks or corrosion. • Continuously monitor the tank filling operations. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 11	Silo Diesel Tank	• Reinforced concrete containment curbing with transfer pump to Thickener Tank • Periodically inspect the tank integrity and check for leaks. • Verify transfer pump operation during monthly inspection • Check all piping, valves, and nozzles at regular intervals for leaks or corrosion. • Continuously monitor the tank filling operations. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 12	Locomotive Fuel Tanks	• Containment slab with sump and transfer pump to Thickener Tank • Periodically inspect the tank integrity and check for leaks. • Verify transfer pump operation during monthly inspection • Check all piping, valves, and nozzles at regular intervals for leaks or corrosion. • Continuously monitor product dispensing operations. • Continuously monitor the tank filling operations. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 13	Container Repair Building	• Provide spill pans for all containers being used to dispense maintenance fluids • Locate extra product containers out of traffic path to avoid container damage; properly ground any containers of flammable liquid • Visually inspect trench drain to Locomotive Fuel tank area sump to ensure free flow in event of release inside Building • Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks or corrosion. • Continuously monitor product dispensing operations. • Continuously monitor the tank filling operations. • Have absorbent material on hand in the area for immediate spill clean-up.

SOURCE	DESCRIPTION	BEST MANAGEMENT PRACTICES
Source 14	Lid Seal Tank	• Periodically inspect the tank integrity and check for leaks. • Check all piping, valves, and nozzles at regular intervals for leaks or corrosion. • Continuously monitor product dispensing operations. • Continuously monitor the tank filling operations. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 15	Portable Containers	• Store containers inside Container Repair Building, designated containment areas or areas that drain into the Byproduct Area process sewer. • Position containers in remote locations such that opportunity for damage or overturning is minimized • Properly label portable and small quantity containers to avoid misuse, generation of waste and potential safety issues • Continuously monitor all transfer operations. • Have absorbent material on hand in the area for immediate spill clean-up.
Source 16	Process Area	• Maintain Byproduct Area equipment in proper working order. • Good housekeeping to maintain process areas clean and free of debris, reduce pollutant and solids loading of wastewater treatment plant • Routine inspection of electrical substation, process areas, boiler room and other areas/systems
Source 17	Coal/Coke Yard	• Maintain coal and coke storage piles at an adequate distance from drainage ditches, and maintain minimum grades to reduce erosive energy and shear forces associated with sheet or concentrated flows • Maintain cover/tarps on rolloff containers • Remove sediment from storm water ditches, intermittent check dam structures and sedimentation basin. • Periodic visual inspection of storm water ditches and sedimentation basin. • Remove spent absorbent booms from drainage ditches, retention basin as necessary and replace

Control and Containment Facilities

SOURCE	DESCRIPTION
Source 1	• Concrete secondary containment around Ammonia Liquor Storage Tanks has a capacity of approx. 192,000 gallons, interconnected with Coal Tar Storage Tanks (Source 2) containment which has a capacity of approx. 175,000 gallons, for total combined containment capacity of approx. 367,000 gallons, which exceeds 110% of the largest single storage container. • Containment contents pumped into the process unit, with any process wastewater directed to onsite wastewater treatment plant • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up. • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 2	• Concrete secondary containment around Coal Tar Storage Tanks has a capacity of approx. 175,000 gallons, interconnected with Ammonia Liquor Storage Tanks (Source 1) containment which has a capacity of approx. 192,000 gallons for total combined containment capacity of approx. 367,000 gallons, which exceeds 110% of the largest single storage container. • Containment contents pumped into the process unit with any process wastewater directed to onsite wastewater treatment plant. • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up. • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 3	• Concrete paved area surrounding Thickener Tank is sloped to an area drain which flows via gravity to the storm water collection system and concrete sedimentation basin ahead of the site retention basin and Outfall 002. The concrete sedimentation basin is calculated as capable of retaining 47,000 gallons of oil at a depth of one (1) foot, which exceeds 110% of the anticipated maximum oil volume in this storm water tank. • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up. • Any discharge would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 4	• Concrete secondary containment around Ammonia Separator Tank drains to Byproduct process sumps and Byproduct Process Area containment, which exceed 110% of largest single container. • Tank N.I.S.; Containment unlikely to contribute pollutants to Byproduct process unit. • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up. • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.

SOURCE	DESCRIPTION
Source 5	• Concrete secondary containment around BTX Tanks has a capacity of approx. 97,000 gallons, which exceeds 110% of the largest single storage container. • Containment contents pumped into the process unit, with any process wastewater directed to onsite wastewater treatment plant • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up. • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 6	• Concrete sump underneath the BTX Tanker/Truck loading area has a capacity of approx. 97,000 gallons, which exceeds 110% of the largest single storage container. • Containment contents pumped into the process unit, with any process wastewater directed to onsite wastewater treatment plant • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up. • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 7	• Concrete secondary containment around the new and used wash oil tanks has a capacity of approx. 25,000 gallons, which exceeds 110% of the largest single storage container. • Concrete secondary containment around the caustic tanks has a capacity of approx. 30,000 gallons, which exceeds 110% of the largest single storage container. • Containment contents pumped into the process unit, with any process wastewater directed to onsite wastewater treatment plant • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up. • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 8	• Concrete secondary containment around the Gasoline Tank has a capacity of approx. 1,500 gallons, which exceeds 110% of the largest single storage container. • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 9	• Concrete secondary containment around the Emergency Diesel Tank has a capacity of approx. 12,500 gallons, which exceeds 110% of the largest single storage container. • Containment contents drain into the process unit, with any process wastewater directed to onsite wastewater treatment plant • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond. Refractory product does not contain oil.
Source 10	• Refractory storage tanks located at end of ovens; release of refractory slurry is unlikely to migrate from the release area • Any flow from the release area would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up. Refractory product migrating from storage tank area would enter sedimentation basin, the capacity of which exceeds 110% of container volume.

SOURCE	DESCRIPTION
Source 11	• Concrete secondary containment around the Silo Diesel Tank has a capacity of approx. 8,800 gallons, which does not meet 110% containment criteria. • Containment contents pumped into the process unit, with any process wastewater directed to onsite wastewater treatment plant. • Sized secondary containment deemed impracticable due to proximity to heavy equipment haul road and process units. • Any fuel released to ground surface outside the containment would flow via diversion ditches to the sedimentation basin, which provides secondary containment capacity in excess of 110% of the container volume. • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 12	• Concrete paved area sloped to a process drain and containment sump/pump system. • Containment contents pumped into the process unit. • Any discharge outside contained area would flow overland and diversion ditch to sedimentation basin, which provides containment in excess of 110% of largest single container. • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 13	• Metal secondary containment surrounding the used oil tank has a capacity of approx. 800 gallons, which exceeds 110% of the largest single storage container. • Metal secondary containment surrounding the 500 and 1,000 gallon new oil tanks has a capacity of approx. 1,100 gallons, which equals 110% of the largest single storage container. • Metal secondary containment surrounding the other 500 and 1,000 gallon new oil tanks has a capacity of approx. 1,100 gallons, which equals 110% of the largest single storage container. • Located within a building with floor trenches that drain to locomotive sump/pump, which is pumped to the process unit. • Any fuel released to ground surface outside the containment would flow via diversion ditches to the sedimentation basin, which provides secondary containment capacity in excess of 110% of the container volume. • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up. • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 14	• Tanks containing refractory slurry used to seal ovens; no oil storage or use, release unlikely to migrate from release area • Any spillage of lid seal refractory, while unlikely due to site surfacing and grade, could drain to facility's storm water collection system, sedimentation basin and storm water retention pond. Refractory product migrating from storage tank area would enter sedimentation basin, the capacity of which exceeds 110% of container volume.

SOURCE	DESCRIPTION
Source 15	• Portable containers are stored on containment pallets, which exceed 110% of the largest single storage container, or within process areas that drain to the process sewer, which provides containment in excess of 110% of the largest single storage container. • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up. • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 16	• Process areas are contained and drain to the process sewer. Process area containment curbing and sumps/pumps provide hydraulic control of all potential releases within Byproducts area. • Activated sludge wastewater treatment plant serves entire Byproduct Process area, and is designed to remove solids as well as inorganics and organics by means of aeration, clarification, sedimentation, filtration and polishing. Waste sludge is pressed and returned to process as feedstock. • Any oil passing through the process into the wastewater treatment plant is retained, as the wastewater treatment unit which is equipped to contain oil until it can be cleaned up • Any overflow of containment would drain to facility's storm water collection system, sedimentation basin and storm water retention pond, both of which are equipped to contain oil until it can be cleaned up.
Source 17	• The coal/coke storage yard drains into perimeter drainage ditches which flow into the storm water sedimentation basin and the storm water retention basin. • Multiple rock check dams are located in the west perimeter ditch to retain solids; dams subject to periodic inspection and cleaning of accumulated solids • Dust suppression system used in storage yard. Operate dust suppression system on as needed basin, at controlled rate and duration • Mixed polymers and flocculant addition to sedimentation basin discharge, prior to retention basin, as needed • Storm water retention basin provided with absorbent booms as well as filter dam, under or through which water must pass prior to discharge through manually accuated gate valve • Solids accumulation in sedimentation basin and retention pond subject to removal as needed; at a minimum, assess accumulated solids depth at least annually • Verify normally closed position of 20" double disc gate valve on outfall pipe from retention pond; return to closed position following controlled discharge event

Summary of Oil Storage Facilities

SOURCE NO.	TYPE	PRODUCT	CAPACITY (GALLONS)	CORROSION PROTECTION	SPILL POTENTIAL
2	AST	Coal Tar	174,000 230,000	Painted Steel	Low
3	AST	Oily wastewater	870,000 (est. oil < 10,000)	Painted Steel	Low
5	AST	BTX Light Oil	42,000 42,000	Painted Steel	Low
6	AST	Tanker Truck/car	2,500 ea.	SS/Painted Steel	Low
7	AST	Wash Oil	20,000 10,000	Painted Steel	Low
8	AST	Gasoline, Unleaded	1,000	Painted Steel	Low
9	AST	Diesel Fuel	8,245	Painted Steel	Low
11	ASt	Diesel Fuel	25,000	Painted Steel	Med
12	AST	Diesel Fuel	20,000 1,000	Painted Steel	Med
13	AST	New and used oil	3 @ 500 2 @ 1,000	Painted Steel	Low
15	IBC	Misc. Oil	55 gal drums 275 gal totes 500 gal port tank	Painted Steel	Low

(SEE EXHIBIT 4 FOR LOCATIONS)

5.2 Potential Pollution Areas

The potential pollution areas and aspects associated with the storage of oil are listed in the table below.

Area	Description	Potential Pollution Problems
A	Byproduct Manufacturing Area	(1) Leaks in storage tanks, hard piping or hoses, valves (2) Damage to containers, totes and drums (3) Damage to gasoline containment and/or AST (4) Spill/overfill during diesel fuel, gasoline and/or oil transfers (5) Spills & leaks from operation and maintenance of rolling stock or fixed equipment (6) Spills while moving portable tanks
B	Coke Oven Area	(1) Tank shell failure on mobile equipment (2) Spill/overfill during fuel or oil transfers and maintenance activities
C	Coal/Coke Storage Yard	(1) Leaks in storage tanks, hard piping or hoses, valves (2) Damage to containers, totes and drums (3) Spill/overfill during diesel fuel, gasoline and/or oil transfers (4) Failure of sump pumps at silo or locomotive AST installation during spill event (5) Spills & leaks from operation and maintenance of rolling stock or fixed equipment (6) Spills while moving portable tanks (7) Spills associated with Contractor activity in west yard

5.3 Existing Control and Containment Facilities

ITEM	DESCRIPTION
1	Spill Containment Kit consisting of absorbent pads and/or absorbent materials
2	Periodic Visual Inspection
3	Indoor and/or Covered Storage Area
4	Spill Containment Pad and Sump/Pumps
5	Sized Secondary Containment
6	Oil Retention Pond

(SEE EXHIBIT 4 FOR LOCATIONS)

ABC Coke utilizes several different means of control and containment for oils. These include casual visual inspection by production staff throughout each work day, formal, documented visual inspection by designated individuals on a monthly basis, and non-destructive integrity testing or visual examinations at a frequency determined by applicable API or STI standard. Similar casual and formal inspection of areas containing exposed, significant materials which may contribute pollutants to storm water discharges from the site are performed, and the drainage basin contributing process wastewater to the wastewater treatment facility is also subject to ongoing inspection, maintenance and repair to minimize the pollutant loading on the process. Other BMPs include the use of mechanical street sweepers and water spray to control dust, routine maintenance of mechanical systems and rolling stock, improved surfacing and spill containment in the form of spill pallets, sized secondary containment, spill containment pads with collection sumps and transfer pumps, retention basins and absorbent materials, visual sight gauges on ASTs, indoor and/or covered storage areas, and covers or tarps on certain materials stored outdoors.

Transfers of oil are supervised by ABC Coke staff. Available tank volume is determined prior to initiating transfer, and the transfer process is attended at all times. Nozzles and valves should be inspected at regular intervals for proper closure and leaks. The loading and unloading of drums and totes is to be supervised by ABC Coke staff and performed in accordance with ABC Coke Standard Operating Procedures (SOP's).

Standard operating procedure for transfer of used oil from portable containers to the stationary used oil tank is that the trained waste handler is to remain present for the duration of the transfer in case a spill or leak were to occur. Similarly, when used oil vendors come onto the ABC Coke property to remove the waste oil from the tank, the waste handler or other authorized ABC Coke personnel is to remain at the tank and observe the entire transfer procedure.

A spill response kit containing absorbent pigs, containment booms, pads, mops, shovels, brooms, and/or absorbent material shall be located in each bulk oil storage area for cleanup of spills. The designated locations for the spill response supplies and/or kits shall be as shown on the drawings in Exhibit No. 4. The spill response supplies and/or kits are to be inspected in conjunction with the monthly oil storage area inspections to ensure that they are adequately stocked, easily accessible and functional. Absorbent materials used to clean up leaks or spills are to be placed in designated containers for proper disposal or recycling by an outside contractor.

5.4 Drainage and Runoff Data

Runoff from the ABC Coke facility that may come into contact with uncontained spills or potential pollution sources will drain either into the process sewer (Outfall 001) or to the on-site storm water collection system (Outfall 002). The Byproduct manufacturing area is curbed and contained such that all process water, along with any storm water falling within the perimeter, is contained and returned to the process or pumped to the wastewater treatment plant for aerobic treatment prior to discharge to Five Mile Creek. This stream is not designated as impaired or listed as a 303(d) water body. Pumped storm water and any incidental fuel or oil from the Locomotive Fuel Tanks area (Source 12) and Container Repair Building (Source 13) is also directed to the Thickener Tank for reuse in the process. Storm water and non-storm water outside the areas described above will travel overland and eventually discharge from Outfall 002. Storm water flows overland by sheet flow before entering area drains and storm sewer systems (Source Area B) or open ditches (outside Area A and Source Area C) which read to the concrete lined sedimentation basin just upstream of the retention basin. ABC Coke has the ability to introduce a flocculant to the effluent from the sedimentation basin to further improve settling.

A number of rock check dams are also placed in the west perimeter drainage ditch to aid in retention of coal solids. These ditches and rock check dams are maintained on an as-needed basis, with solids removed from the ditch line combined with scrap material and returned to the process. Drainage that flows into the storm water collection system is received is received by the storm water sedimentation basin. The basin is designed to allow solids to settle and be retained, and is equipped with floating booms that will retain oil within the basin. The sedimentation basin discharges into the facility storm water retention pond, where further settling will occur. The pond is also equipped with two rows of floating booms to retain oil and a rock/filter fabric/sand filter dam prior to discharge through a manually operated gate valve. The storm water retention pond discharges to Five Mile Creek

near the northwest corner of the property. The storm water discharge location is indicated on the site map included in Exhibit No. 4.

Storm water that drains into the process sewer is pumped back into the process where the majority of contaminants should be removed. Any pollutants that pass through the process are directed to the facility wastewater treatment plant, which is an activated sludge biological process. Process units include ammonia stills, coolers, flow equalization, aeration, clarification, sedimentation, sand and activated carbon filtration, followed by effluent aeration. Sludges are processed on a belt press and are returned to the process as feedstock. The plant is equipped to remove or retain potential pollutants including oil, prior to discharge to Five Mile Creek.

5.5 Details Concerning Potential Pollution Areas and Fault Analysis

The majority of the potential pollution sources have containment or drainage structures that discharge to the process. These sources include sources 1, 2, 3, 4, 5, 6, 7, 9, 11, 12, 13, 15, and 16. If a spill were to occur at any of these sources, ABC Coke would have the ability to pump any product or impacted storm water into the Thickener Tank for reuse in the process. Any pollutants not removed in the process would flow with the wastewater to the wastewater treatment plant. The plant is equipped to remove or retain potential pollutants including oil. Any spilled material that overflows the containment or control structures would be received by the facility's storm water collection system and flow to the storm water sedimentation basin and site retention basin. The sedimentation basin is designed to allow solids to settle and be retained in the basin, and is also equipped with floating booms that will retain oil. This basin discharges into the facility storm water retention pond, where additional settling of solids and/or separation of floating oil may occur. The pond is also equipped with two rows of floating booms to retain oil. The storm water must also pass through a filter fabric and sand filter dam prior to being discharged from the pond. The storm water retention pond is equipped with a manually operated gate valve which remains in the normally closed position unless retained water is being discharged to Five Mile Creek. The configuration of the sedimentation basin, along with the freeboard associated with the storm water retention pond, provides sufficient volume to retain the capacity of the largest single oil container at the facility.

The remaining potential pollution sources do not drain to the process sewer. These sources are sources are 8, 10, 14, and 17. Source 8 (Gasoline Tank) and Source 9 (Diesel Tank) have sized secondary containment at the source. Any spill from these sources along would be retained within the secondary containment located at the source. Any spill from the remaining sources as well as any overflow from Sources 8 and 9 would be received by the facility's storm water collection system. This system discharges to the storm water sedimentation basin and retention basin, each of which have the ability retain oil in excess of the largest of the above containers (6,000 gallons). The pond is also equipped with two rows of floating booms to retain oil. The storm water must also pass through a filter fabric and sand filter dam prior to being discharged from the pond. The storm water retention pond discharges to Five Mile Creek.

The storage facilities at which receiving, unloading and handling occur, and the existing containment and control practices at the ABC Coke, Tarrant, Alabama facility are described as follows:

Source/Area A - Byproduct Manufacturing Area
Source/Area B – Coke Oven Area
Source/Area C – Coal/Coke Storage Yard

This information is summarized above and in Exhibit No. 4.

Source/Area A is the Byproduct Manufacturing Area, which is a curbed and contained chemical manufacturing area. Various chemical processing units and storage tanks are located within the Byproducts Manufacturing Area. All process water, as well as any precipitation falling on the area, is pumped to the Thickener Tank (Source 3), which serves as a storage and equalization tank and allows this water to be returned to the process for reuse. Any excess water/wastewater is directed to the biological wastewater treatment plant located at the north end of the ABC Coke site and alongside Five Mile Creek. Boiler and Cooling Tower blowdown are pumped to the storm

drain system draining Source Area B and Outfall 002, according to the NPDES permit applications submitted by ABC Coke.

Additional information on the wastewater treatment process serving the Source Area A is provided below:

- Ammonia Stills — Two (2) ammonia stills, 250 gpm each, designed to remove ammonia and amenable cyanide ions
- Coolers — Fabricated steel cooler unit capable of reducing wastewater temperature from 190°C to 120°C
- Flow EQ Basin — Aerated lagoon, 250,000 gallons, 17 hr retention time. Phosphoric acid and anti-foam additions as needed
- Activated Sludge Unit — Two (2) 305,000 gallon aerated units, operating in parallel; caustic additions as needed to maintain proper pH
- Clarifier — Two (2) 65 ft. dia. Clarifiers operating in parallel; polymer additions as needed to enhance settling
- Sedimentation Basin — Polishing pond/lagoon, cleaned out as needed
- Filtration — Four (4) sand filters followed by four (4) GAC columns
- Effluent Aeration — Aeration of treated wastewater prior to discharge
- Sludge Processing — Sludge dewatered using belt press with polymer addition. Cake eventually returned to process as feedstock.

NPDES Permit AL0003417 requires frequent sampling and analysis of treated process wastewater and storm water runoff from the coke making operations (DSN0011) and storm water discharges from the coal yard area (DSN0021). A copy of the current NPDES permit is provided in the Appendices. All records required by the permit must be maintained at the facility, or at an alternate location approved by the Director, for a period of at least three (3) years from the date of the record. ABC Coke maintains such records in the ABC Coke offices at 900 Huntsville Avenue.

Worst case – The worst case scenario would be the sudden and catastrophic failure of one of the ammonia liquor (250,000 gallon) or coal tar (230,000 gallon) tanks during a significant storm event, overwhelming the Byproducts Area containment and/or pumping systems. If this were to occur, the liquid could flow overland and eventually enter the storm water sedimentation basin and facility retention pond. A release of this nature is unlikely, as the length of travel is significant and there are multiple points along the flow path for ABC Coke personnel to block or divert the flow. However, consideration should be given to maintaining the retention pond water level such that emergency spill retention capacity is maximized. Maximum single tank oil capacity in this area is 42,000 gallons.

Any employee who discovers a release will immediately report the incident to the appropriate supervisor. The supervisor will assess the release, take or direct action to stop the flow of material, and assure no endangerment of individuals. Releases will be reported to the appropriate personnel as soon as the situation is under control or within the required reporting time. Reporting of a spill event will follow the procedures outlined in Section 6. In the event of a release of oil, the drainage path should be blocked and diked with absorbent material or socks/booms to stop the release from migrating. The area immediately around the spill should also be diked. If the material leaves this area, its path should be blocked and/or storm water conveyance entrances should be blocked with a cover or diked with absorbent material to stop the release from leaving the property. Cleanup should be initiated immediately and the appropriate supervisor notified. Spill contingency procedures specified in Section 6, including contacts and record keeping, shall be followed.

Repair of the cause of the release shall be undertaken as soon as practicable and as soon as safety considerations permit. After initial abatement efforts are complete, residual spillage should be addressed through the use of absorbents or other such materials. Cleanup materials shall be containerized, labeled, and stored out of the weather for appropriate disposal.

Oil transfers shall be performed by authorized vendor staff and attended at all times, in accordance with ABC Coke SOP's. Available tank volume shall be determined by comparison of tank levels to manufacturer's volume

charts, and verified by manual staffing of tanks. Product transfer shall be monitored by ABC Coke staff throughout the process. Valving on the delivery tanker shall be checked for leaks prior to, during and immediately after transfer.

Source/Area B is the Coke Oven Area, which is located just west of the Byproducts Area. Limited oil and liquid chemical storage takes place in this area. Refractory and Lid Seal storage consists of a refractory product slurry used to seal the coke ovens, and grades within the coke oven area are such that if a release were to occur, it is unlikely that the spilled product would migrate from the release area. Material handling associated with the coke ovens poses the greatest opportunity for impact upon storm water discharges. Sediment controls along the flow path, as well as mechanical sweeping of pavements surrounding these operations, remove considerable volumes of sediment from the storm water flow. Periodic and routine maintenance activities associated with the pushers and other mechanical systems are performed by qualified personnel, and authorized ABC Coke personnel are responsible for the transfer of fuel or oil per ABC Coke SOPs. Spill kit material is readily accessible for cleanup and containment

Worst case – The worst case scenario would involve either the sudden and catastrophic failure of refractory tanks, releasing up to 6,000 gallons of a slurry of water and refractory material (typically metal oxides). A release of this magnitude is unlikely to migrate from the immediate vicinity of the release, however, care should be taken to cover any nearby drains or block the flow path to prevent entry to the storm drainage system.

Any employee who discovers a release will immediately report the incident to the appropriate supervisor. The supervisor will assess the release, take or direct action to stop the flow of material, and assure no endangerment of individuals. Releases will be reported to the appropriate personnel as soon as the situation is under control or within the required reporting time. Reporting of a spill event will follow the procedures outlined in Section 6. In the event of a release of oil, the drainage path should be blocked and diked with absorbent material or socks/booms to stop the release from migrating. The area immediately around the spill should also be diked. If the material leaves this area, its path should be blocked and/or storm water conveyance entrances should be blocked with a cover or diked with absorbent material to stop the release from leaving the property. Cleanup should be initiated immediately and the appropriate supervisor notified. Spill contingency procedures specified in Section 6, including contacts and record keeping, shall be followed.

Oil transfers shall be performed by authorized vendor staff and attended at all times, in accordance with ABC Coke SOP's. Available tank volume shall be determined by comparison of tank levels to manufacturer's volume charts, and verified by manual staffing of tanks. Product transfer shall be monitored by ABC Coke staff throughout the process. Valving shall be checked for leaks prior to and during transfer.

Repair of the cause of the release shall be undertaken as soon as practicable and as soon as safety considerations permit. After initial abatement efforts are complete, residual spillage should be addressed through the use of absorbents or other such materials. Cleanup materials shall be containerized, labeled, and stored out of the weather for appropriate disposal.

Source/Area C is the coal/coke storage yard, located on the west side of the facility. This area includes coal, coke, breeze, scrap and mixed material stockpiles, dust suppression additives, covered rolloff containers, truck quench and coke sizing operations, mixed material screening operations, container repair and locomotive fueling and substantial diesel fuel storage. The largest single container of oil in this area is 25,000 gallons of diesel fuel at the silo area. New and used oil tanks and drums, along with used oil, is managed in the container repair building. A disposal contractor collects used oil from the tank into a tanker truck for disposal. Authorized ABC Coke personnel are to supervise all loading or unloading of tanks per ABC Coke SOPs. Spill kit material is readily accessible for cleanup and containment

Worst case – The worst case scenario would involve failure of the 25,000 gallon diesel fuel AST at the silo at a rate which exceeds the pumping rate of the sump pump, causing an overtopping of the containment wall. Such a spill would migrate toward the west and north before entering the sedimentation basin and retention basin.

Any employee who discovers a release will immediately report the incident to the appropriate supervisor. The supervisor will assess the release, take or direct action to stop the flow of material, and assure no endangerment of individuals. Releases will be reported to the appropriate personnel as soon as the situation is under control or within the required reporting time. Reporting of a spill event will follow the procedures outlined in Section 6. In the event of a release of oil, the drainage path should be blocked and diked with absorbent material or socks/booms to stop the release from migrating. The area immediately around the spill should also be diked. If the material leaves this area, its path should be blocked and/or storm water conveyance entrances should be blocked with a cover or diked with absorbent material to stop the release from leaving the property. Cleanup should be initiated immediately and the appropriate supervisor notified. Spill contingency procedures specified in Section 6, including contacts and record keeping, shall be followed.

Oil transfers shall be performed by authorized vendor staff and attended at all times, in accordance with ABC Coke SOP's. Available tank volume shall be determined by comparison of tank levels to manufacturer's volume charts, and verified by manual staffing of tanks. Product transfer shall be monitored by ABC Coke staff throughout the process. Valving shall be checked for leaks prior to and during transfer.

Repair of the cause of the release shall be undertaken as soon as practicable and as soon as safety considerations permit. After initial abatement efforts are complete, residual spillage should be addressed through the use of absorbents or other such materials. Cleanup materials shall be containerized, labeled, and stored out of the weather for appropriate disposal.

5.6 Risk Summary

The ABC Coke, Tarrant, Alabama plant has a low risk for spills to occur and migrate offsite. While oil storage and use volumes are relatively small (<42,000 gal. max. container size) and easily managed by secondary containment structures and oil retention volume afforded by both the concrete sedimentation basin and site retention basin. More significant is the volume of ammonia liquor and coal tar in storage. Each of these potential pollutants could cause impairment of surface waters if allowed to migrate offsite. ABC Coke stores these chemicals in the Byproducts Manufacturing Area, where containment curbing, equalization basin and Thickener tank capacities should serve to contain and control the majority of release scenarios. ABC Coke personnel diligently maintain process elements and pumping systems to ensure the facility is able to manage a release of chemical products or oil with Source Area A or elsewhere on the site, such that no discharge to Five Mile Creek occurs.

Operations posing the greatest risk of release to the environment include fuel and oil deliveries, used oil collection, chemical product deliveries and collections, and material handling practices. Through the diligent application of sound Best management Practices, including supervised fuel/oil delivery and collection, periodic, routine maintenance, storage of materials in designated areas and good housekeeping, ABC Coke has been successful in avoiding any reportable spills of oil or other pollutant to surface waters, and in maintaining compliance with effluent limitations assigned to DSN0011 and DSN0021. Trained spill response staff are present during each work shift, and spill response equipment is available at the site to respond to any spill that might occur in a timely manner.

The ABC Coke facility may contact the following emergency response contractor in the event of an oil release:

American Plant Services, LLC
Sylacauga, Alabama
(256) 245-0100 or
(866) 314-5702

Spectrum Environmental Services
Alabaster, Alabama
(205) 664-2000 or
(888) 739-0838

5.7 Certification of the Applicability of the Substantial Harm Criteria

The ABC Coke, Tarrant, Alabama facility does not meet the substantial harm criteria listed in Attachment C-I to Appendix C of 40 CFR Part 112. The owner or operator shall complete and maintain at the facility a certification of the applicability of the substantial harm criteria form. A signed Certification Form is presented as Exhibit No. 1.

5.8 Good Housekeeping

The ABC Coke, Tarrant, Alabama facility maintains good housekeeping practices to prevent the incidental release of oil and other pollutants identified by the NPDES permit. All oil storage areas and pollution control equipment will be casually inspected on a daily basis by area personnel as a part of their normal work routine. These areas, as well as exposed, significant material storage areas, will be maintained in uncluttered and in good working order. Beyond these simple measures, the following specific good housekeeping practices are implemented by ABC Coke:

- Inspect oil booms in the storm water and wastewater systems on a monthly basis.
- Replace oil booms as needed.
- Inspect storm water ditches on a quarterly basis.
- Remove sediment from the storm water ditches and from behind rock check dams as needed.
- Inspect storm water sedimentation basin on a monthly basin.
- Remove sediment from sedimentation basin as needed.
- Maintain coal and coke based materials in stockpiles out of concentrated storm water flow paths
- Utilize mechanical sweeping units to clean improved surfacing throughout the plant
- Perform vehicle maintenance and repair under cover, where practical
- Collect incidental or windblown trash and place in suitable containers to prevent migration offsite
- Store all empty or soiled containers destined for reuse under cover or on side with bungs/lids secure
- Keep spill control sumps free of accumulated solids and debris which may hinder proper function o\ pumps or level controls

5.9 Erosion Prevention and Sediment Control

The ABC Coke, Tarrant, Alabama facility has a long operational history. Perimeter areas and embankments are stable, with no signs of abnormal or excessive erosion evident. In order to protect the wastewater plant, the left descending bank of Five Mile Creek has been armored with machined limestone riprap. This bank is subject to periodic inspection as part of the inspection of the wastewater treatment facility, and additional erosion and sediment controls may be implemented on an as-needed basis, regardless of location on the property. Seed and mulch or commercial erosion control products may be used to stabilize sparsely vegetated areas.

Construction activity on the ABC Coke site may subject to implementation and maintenance of structural and non-structural controls to prevent erosion and minimize sediment loss. For any activity involving one (1) or more acres of disturbance, the general contractor shall be responsible for obtaining any permits required by the State of Alabama or local jurisdiction responsible for construction storm water compliance.

6.0 CONTINGENCY PLAN

6.1 Spill Notification Process

1. Any employee observing a spill of oil or any related material of any quantity, no matter how small, that may come into contact with any natural surface water course, is required to first take immediate action to contain spill by placing absorbent material around the spill or by diking of drains. Specific procedures for each source are included in Section 5 and general procedures are included in this section. This operation should only be carried out without jeopardizing an employee's safety or the safety of other employees. After appropriate action is taken to contain spill, the employee is to notify his immediate supervisor and the following:

Bill Osborn	Environmental Coordinator	(205) 849-1338 (w) (205) (c)

2. In the event that the person listed above cannot be contacted, a secondary coordinator listed below must be notified:

NAME	TITLE	TELEPHONE
Jim Howard	Byproducts Manager	(205) 288-3843 (c) (205) 981-1351 (h)
Norman Loebler	Byproducts Supervisor	(205) 288-7821 (c) (205) 631-8615 (h)
Charlie Carmichael	Byproducts Supervisor	(205) 583-7837 (c) (205) 681-0300 (h)

3. For each spill, written documentation of the spill is required. The following information is to be included in this documentation:

   a) Exact address or location and phone number of facility
   b) Date and time of spill (actual/discovered)
   c) Area where spill occurred
   d) Type of spill (oil, lubricant, etc.)
   e) Estimated volume
   f) Did any spill leave the property?
      1) If so, where was it discharged?
      2) What is the ditch into which the spill has, or may enter?
   g) Suspected failure that caused spill
   h) Description of all affected media
   i) Assessment of imminent danger to personnel or property
   j) Damage and injuries caused by spill
   k) Actions taken to contain, stop, remove or cleanup spill
   l) Identification of any local emergency unit(s) contacted

4. The emergency coordinator is to contact the Environmental Coordinator or Engineering Manager as soon as possible.

The following table summarizes reporting requirements for oil spills that impact surface waters of the United States.

Substance	Quantity [illegible]	National Response Center [illegible]	EPA Reporting [illegible]	State or Local Reporting Requirements
Oil	Visible sheen or discoloration	Yes	No	Yes
	>1,000 gallons single event	Yes	Yes	No
	>42 gal./two events in any 12 month period	Yes	Yes	No

1 Formal written incident report to Regional Administrator

Discharge of oil in such quantities that may be harmful (i.e., cause a film or sheen upon or discoloration of surface water or adjoining shorelines) must be *immediately* reported to the National Response Center (800-424-8802). Reporting to this number satisfies the facilities legal reporting obligation under 40 CFR 112, with the National Response Center serving as a clearinghouse, notifying other agencies as appropriate. Formal written incident reporting to EPA is not required for an oil spill less than 1,000 gallons for a single event or less than 42 gallons in each of two (2) events within a 12 month period. *Oil spills which do not flow off-site or otherwise impact the surface waters of the United States are not subject to reporting to the National Response Center.* Any oil spill must be cleaned up immediately to eliminate the potential for contact with storm water that could transport oil contamination to impact the waters of the United States.

Oil and/or chemical spills shall be reported to the appropriate local, state and federal agencies listed below as required.

Agency	Location	Telephone
National Response Center	Washington, D.C.	(800) 424-8802
U. S Environmental Protection Agency, Region IV	Sam Nunn Atlanta Federal Center 61 Forsyth Street, SW Atlanta, GA 30303-8960	(404) 562-9900 or (404) 562-8700 (24-hr spill response)
Tarrant Fire Department	Tarrant, Alabama	911
Tarrant Police Department	Tarrant, Alabama	911
Jefferson County Sheriff	Birmingham, Alabama	911
Alabama Department of Environmental Management	Montgomery, Alabama	(205) 942-6168 or (205) 583-5560 (after hours)

6.2 Spill Control and Containment Equipment Inventory

A spill kit containing absorbent booms, pads, mops, shovels, brooms, and/or absorbent material sufficient to contain a worst case spill occurring outside containment should be located in each potential pollution area for cleanup of spills.

The locations of the spill response supplies and/or kits shall be as shown on the drawings in Exhibit No. 4. The spill response supplies and/or kits are inspected in conjunction with the monthly oil storage area inspections to ensure that they are adequately stocked, easily accessible and functional.

6.3 Additional Emergency Action

1. Locate the source of release.
2. Try to stop and/or contain the release by using absorbent material, existing valves or other equipment, as appropriate, to contain the release, or by plugging drains without jeopardizing his or her safety.
3. Using the available spill control and containment equipment described above, the drainage pathways are to be blocked to stop the spill from flowing from the building and entering ditches, storm drains, or floor drains.
4. Use absorbent material to build filter dams to control movement of spill.
5. Do not use any material to cause oil to sink or disperse.

6.4 Procedures for Containment and Cleanup

In the event of an oil spill incident, regardless of size or scope, the employee who discovers the spill should take the immediate actions:

1. If any person is injured, contact the local emergency service for assistance.
2. Locate the source of spill.
3. Try to stop and/or contain the spill or leak by using absorbent material to contain the spill, or by plugging drains without jeopardizing his or her safety.
4. Notify the appropriate supervisor.

The appropriate supervisor, after being notified, will investigate the spill, determine the severity of the situation, and take the following actions:

1. Organize the appropriate employees to start procedures for containment and cleanup of the spill.
2. The spill response team will act immediately to prevent the spill from leaving the facility property via floor drains, drainage pathways and ditches.
3. Clean up residual spills by using absorbent material mops, brooms, etc. Large spills should be pumped into spare tanks, empty drums or vacuum trucks (if available). A licensed waste disposal contractor should be contacted for proper disposal and/or recycling of liquid and absorbent wastes, when necessary.
4. Provide appropriate information to the Environmental Coordinator.

When the Supervisor has the appropriate clean-up operations in progress, he or she shall then notify the Environmental Coordinator to update them on what has happened and what actions are in progress to stop, contain, and clean-up the spill.

6.5 Corrective Action

After the release has been cleaned up and the material disposed of properly, the Environmental Coordinator, Engineering Manager, plant supervisors, and other appropriate personnel shall thoroughly inspect the cause of the release and take the necessary actions to correct the problem. Additional preventative measures shall also be evaluated, and implemented as necessary. A written report noting the date, what repairs were performed, who made the repairs and test(s) performed after the repairs were made to verify the problem has been corrected, will be submitted by the appropriate supervisor to the Environmental Coordinator. A copy of this report is to be included in Exhibit No. 7.

6.6 Spill Report Record

A written report of reported spill information and actions taken to contain and clean up the spill shall be prepared and maintained on-site with the SPCC Plan. If required, a copy of the report will be sent to the appropriate Federal (EPA Region 4 Administrator), State and local agencies.

Federal regulations require that a facility discharging into navigable waters more than 1,000 gallons of oil in a single event, or two (2) discharges over 42 gallons (one barrel) of oil in any 12 month period, are to file a spill event report with the EPA Regulation Administrator, State, and local agency in charge of water pollution control activities within 60 days, providing the following information:

1. Facility name and address
2. Owners name and address
3. Facility location
4. Date and year of initial facility operation
5. Maximum facility storage or handling capacity and normal daily throughput.
6. Facility description, including maps, flow diagrams and topographical maps.
7. A complete copy of the SPCC Plan with any amendments
8. Spill causes(s), including a failure analysis of system or subsystem in which failure occurred.
9. Corrective actions and countermeasures taken, including an adequate description of equipment repairs or replacement.
10. Additional preventive measures taken or contemplated to minimize the possibility of reoccurrence.
11. Other information required by the Regional Administrator as reasonably pertinent to the plan or spill event.

Copies of all notifications filed must be maintained with the SPCC Plan for a minimum of three (3) years.

7.0 PERSONNEL TRAINING AND USE OF THE INTEGRATED SPCC/BMP PLAN

7.1 Personnel Training

It is critical that oil and material handling employees are familiar with the requirements of the Integrated Spill Prevention Control and Countermeasure/Best Management Practices Plan. To accomplish this, the following procedures should be considered and implemented:

1. Managerial and supervisory personnel are required to read, and be conversant with, the contents of the Integrated SPCC/BMP Plan and the potential impact should a spill occur.

2. Oil handling employees are to be familiar with:

   a) Tanks, storage areas and appurtenances inspected once per month for proper operation and status. Inspections shall be documented.
   b) Location and use of personal protective equipment and spill control materials.
   c) Containment procedures.
   d) Communication to proper authorities by telephone.
   e) The requirement for reporting spills to their supervisor.
   f) The materials available for control and clean-up of spills and their locations.
   g) The Contingency Plan, Section 6, of this plan.
   h) Standard Operating Procedures (SOP) developed by ABC Coke pertaining to fuel and oil management

3. Oil and Material handlers and other employees whose duties involve the loading, unloading, staging and placement of raw materials, chemicals, equipment or other items which may constitute exposed, significant materials shall be trained in the Integrated SPCC/BMP Plan to better understand the SPCC and NPDES programs and their role in pollution prevention.

4. A meeting of managerial and supervisory personnel to discuss the Integrated SPCC/BMP Plan should be held annually to evaluate the Plan and make recommendations for revisions.

5. To keep Spill and Pollution Prevention a high priority issue, short meetings should be held at regular intervals, at least annually, to "update" the Plan and to instruct new employees of the requirements.

6. The date and those in attendance at each SPCC/BMP Plan meeting should be recorded and those records kept with the Plan. The Environmental Coordinator will coordinate training sessions and maintain records of required training.

7.2 Spill Prevention Procedures Training

Oil handling personnel are to be properly instructed in the following items:

1. Equipment operation and maintenance to prevent water pollutant discharges. Each oil-handling employee is to be instructed annually in spill response procedures and the prevention of accidental releases or discharges of water pollutants. New oil-handling employees are to be given training in spill prevention procedures and emergency response procedures before starting work at the facility and annual refresher training. This training shall include SOP's specific to ABC Coke as well as general spill prevention and spill response measures.

2. Oil-handling employees are to be aware that applicable pollution control laws, rules and regulations have been considered in development of the training provided.

3. Oil-handling personnel are to be specifically instructed periodically, at least annually, on the contents of this SPCC Plan. The Plant Manager is accountable for spill prevention measures. As part of its standard facility

8.0 INSPECTION AND RECORDS

8.1 General Inspection Checklist and Schedule

Written inspection checklists and schedules are included in Exhibit No. 6 and are used to detect operator error, equipment malfunctions and deterioration before they result in harm to human health and the environment.

Inspections of oil equipment and storage areas covered by this SPCC/BMP plan shall be performed routinely as a matter of operational practice. Casual visual inspections are to be performed daily with documented inspections occurring monthly. Copies of the "SPCC Inspection Checklist" for each source area are found in Exhibit No. 6. Records of the inspections are to be maintained as part of this Plan for a minimum of 3 years. The purpose of the inspections is to ensure that the facility is properly maintained in accordance with the facility's SPCC/BMP Plan.

8.2 Inspection

Safety/housekeeping inspections should be part of the daily routine at this facility. These casual inspections shall include visual inspection of potential pollution areas, oil dispensing equipment, bulk storage tanks, and truck parking areas. Such casual inspections are not required to be recorded and documented; however, any observed deficiencies should be brought to the attention of the area supervisor or Environmental Coordinator.

A storm water inspection should be conducted after each storm water event. The inspection should include inspection of each outdoor containment system and drainage structure, prior to discharge of storm water from the containment. The inspection should also verify proper operation of any automated/float controlled pumping systems. Each should be documented on the Controlled Discharge Report Form or equivalent.

A formal monthly inspection shall be conducted and documented by the Environmental Manager or his/her responsible designee. At a minimum, the inspection should include visual inspection of all potential pollution sources and areas, including petroleum/oil storage areas, containment basins, material stockpiles and sumps/pumping systems. Leaks from any source should be corrected immediately to avoid future problems. Other items to be inspected include the presence of sufficient absorbent materials for a spill cleanup.

A "SPCC/BMP Inspection Checklist" form as included in Exhibit No. 6 or equivalent form shall be completed during the inspection and maintained in the Environmental Coordinator's office. Any problems found during the inspections are to be immediately reported for resolution.

8.3 Inspection Procedures

Inspections are to be conducted by properly trained personnel. The inspection form utilized by ABC Coke lists items to be inspected and the types of problems to look for during the inspection. Observations, including the time of inspection, are recorded on the appropriate checklist. At a minimum, the inspection checklists used by the inspector shall include all of the oil storage equipment and tanks within a specific area. The checklist is signed and dated by the individual performing the actual inspection. Deficiencies detected during the inspection are noted on the inspection form (unless the deficiency is corrected immediately in the presence of the inspector) and reported to the Environmental Coordinator.

All leaks are to be corrected promptly by ABC Coke maintenance staff, including the removal of any accumulation of oil resulting from the leak. Prompt removal means beginning the cleanup of any accumulation of oil immediately after discovery of the discharge, or immediately after taking actions to prevent fire or explosion or other threats to worker health and safety.

It is the responsibility of the Plant Manager or his/her responsible designee to initiate a response to each identified deficiency. Abatement and remedial actions are taken immediately whenever threats to human health or environment are present. Other concerns are to be addressed promptly.

8.4 Inspection of Plant Effluent

The effluent from the facility's wastewater treatment plant is able to be visually inspected for the presence of oil in the system prior to discharge to Five Mile Creek. The facility's NPDES permit requires twice monthly sampling for Oil and Grease for discharges from both point source Outfalls DSN0011 and DSN0021.

8.5 Integrity Testing

SPCC regulations require regularly scheduled integrity testing of each above ground container, regardless of size. The frequency and type of testing must consider the container size and design (such as floating roof, skid-mounted, elevated, or partially buried). Visual inspection must be combined with another testing technique such as hydrostatic testing, radiographic testing, ultrasonic testing, or another system of non-destructive testing.

Tank inspection and integrity testing shall be conducted in accordance with industry standards STI Standard SP001 for shop fabricated ASTs and portable containers; and API Standard 653 for field constructed ASTs. As a part of formal SPCC monthly inspections, tank surfaces shall be inspected for signs of corrosion. For shop-fabricated AST's that require formal external or internal inspection, the inspection shall be performed by an inspector trained and certified in accordance with API or STI standards. For field constructed ASTs, integrity testing shall be performed by professionals trained and certified in accordance with API standards. At this time, there are no field constructed bulk storage containers on the ABC Coke site. The recommended inspection schedule for shop fabricated ASTs and portable containers along with copies of the STI and API inspection checklists are included in Exhibit No. 7. As shown in the referenced schedule, Category 1 shop built tanks of 1,101-5,000 gallons require periodic visual inspection only; Category 1 tanks of <50,000 gallons capacity require periodic visual inspection plus formal external inspection every 20 years. Documentation of such tank testing shall be kept in Exhibit No. 7.

As stated in the Federal Register / Vol. 67, No. 137 / Wednesday, July 17, 2002 / Rules and Regulations Page 47120:

> "For certain smaller shop-built containers in which internal corrosion poses minimal risk of failure; which are inspected at least monthly; and, for which all sides are visible (i.e., the container has no contact with the ground), visual inspection alone might suffice, subject to good engineering practice. In such case the owner or operator must explain in the Plan why visual integrity testing alone is sufficient, and provide equivalent environmental protection. 40 CFR 112.7(a)(2). However, containers which are in contact with the ground must be evaluated for integrity in accordance with industry standards and good engineering practice."

The SPCC may deviate from the tank testing requirements, if equivalent environmental protection is provided by some other means of spill prevention control or countermeasure. Because drums and totes are only used on a temporary basis, visual inspection alone will be sufficient for these. For the hydraulic reservoirs in the machines, routine maintenance and repair make integrity testing unnecessary.

In addition to the monthly inspections, other content loss control measures include monitoring for filling, inventory records, and measurement of tank volume daily with drop measuring tape or a sight glass.

8.6 Record Keeping and Documentation of Corrective Action

Records of each inspection and sampling event shall be maintained at the facility with the SPCC/BMP Plan for a period of not less than three (3) years. The inspection record must indicate:

1. Date of inspection/sample collection;

2. Time of inspection/sample collection;
3. Name of inspector/sample collectors;
4. Observations made;
5. Nature of repairs/remedies; and
6. Date of repairs/remedies.

8.7 Personnel Training

A copy of the "Personnel Response Training Log" is included as Exhibit No. 8. Records of personnel training shall be maintained at the facility for a minimum of three (3) years.

8.8 NPDES Discharge Monitoring and Sample Collection

Treated wastewater and storm water samples are to be collected as specified in the facility's NPDES Permit (No AL003417) from outfalls DSN0011 and DSN0021. With the exception of pH (limited to 6.0-9.0 s.u.), all parameters listed for Outfall 0011 are to be reported on a mass (lbs/day) basis. Effluent limitations associated with Outfall 0021 include both mass (lbs/day) and concentration (mg/l) basis reporting, with Oil & Grease limited to 15 mg/l (daily maximum). The pH at Outfall 0021 is limited to 6.0-8.5 s.u.

The samples shall be collected and analyzed as outlined in the NPDES permit (Part I.B, see attached). The results of this analysis shall be submitted to ADEM on or before the 28th day of the month following the reporting period utilizing the E^{2}DMR electronic reporting system.

9.1 **Exhibit Number 1 – Certification of the Applicability of the Substantial Harm Criteria**

ABC COKE DIVISION, DRUMMOND COMPANY INC.
TARRANT, ALABAMA
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

   Yes _____ No__X__.

2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any above ground oil storage tank area?

   Yes _____ No__X__.

3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Attachment C-II to Appendix C of 40 CFR 112 or a comparable formula) such that a discharge from the facility could cause injury to fish wildlife and sensitive environments? For further description of fish and wildlife and sensitive environments, see Appendices I, II, and II to DOC/NOAA's "Guidance for Facility and Vessel Response Plans: Fish and Wildlife and Sensitive Environments" (see Appendix E of Part 112, Section 13 for availability) and the applicable Area Contingency Plan.

   Yes _____ No__X__.

4. Does the facility have a total oil storage capacity greater than 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Attachment C-III to Appendix C of 40CFR 112 or a comparable formula) such that a discharge from the facility would shut down a public drinking water intake?

   Yes _____ No__X__.

5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil discharge in an amount greater than or equal to 10,000 gallons within the last 5 years?

   Yes _____ No__X__.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Bob Mason

Bob Mason
Sr. Vice President
ABC Coke Division,
Drummond Company Inc.
900 Huntsville Avenue
Tarrant, Alabama 35202

8/28/13
Date

9.2 **Exhibit Number 2 – Five-Year SPCC Plan Review and Evaluation Certification**

ABC COKE DIVISION, DRUMMOND COMPANY INC.
TARRANT, ALABAMA
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

Professional Engineer certification is not mandatory for the five-year review and evaluation of the SPCC Plan unless technical amendments are necessary.

I certify that I or my agent has completed review and evaluation of the SPCC Plan for the ABC Coke Division, Tarrant, Alabama facility, and (will) (will not) amend the Plan as a result.

Bob Mason
Sr. Vice President
ABC Coke Division,
Drummond Company Inc.
900 Huntsville Avenue
Tarrant, Alabama 35202

8/28/13
Date

SCALE: 1:2,000

LITTLEJOHN ENGINEERING ASSOCIATES

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Project:

ABC COKE
TARRANT, ALABAMA

Title:
SITE VICINITY MAP

Proj. # 20130423

Dwg. No. 1.0

Date: 08/19/2013

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9.4 Exhibit Number 4 – Site Plan, Facility Drainage Map, and Potential Pollution Sources

9.6 Exhibit Number 6 – SPCC Inspection Form

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 1 – AMMONIA LIQUOR STORAGE TANKS #1 2-250,000 GALLONS

YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible residue or leakage from the storage tanks?		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in containment areas including sheen?		
		Is there any leakage around fittings?		
		Is there any leakage around piping?		
		Any standing water in containment?		
		Any visible residue or leakage from the ammonia stills or other process equipment?		

OTHER OBSERVATIONS

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 2 – COAL TAR STORAGE TANKS 1-175,000 GALLONS, 1-230,000 GALLONS				
YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible coal tar residue or leakage from the storage tanks?		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in containment areas including sheen?		
		Is there any leakage around fitting?		
		Is there any leakage around piping?		
		Any standing water in containment?		
		Any visible residue or leakage from the insulated caustic storage tanks?		
OTHER OBSERVATIONS				

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE__DEMO_____INSPECTION TIME_____

SOURCE 3 – THICKENER TANK 587,000 GALLONS				
YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the storage tank?		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage on surrounding area?		
		Is there any leakage around fittings?		
		Is there any leakage around piping?		
		Any free floating oil on Thickener Tank water surface? Need for corrective measures or removal?		
OTHER OBSERVATIONS				

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

(Tar Separator)

SOURCE 4 – AMMONIA SEPARATOR TANKS 107,000 GALLONS NOT IN SERVICE (N.I.S.)

YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the storage tanks:		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in containment areas including sheen?		
		Is there any leakage around fitting?		
		Is there any leakage around piping?		
		Any standing water in containment?		

OTHER OBSERVATIONS

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 9 - DIESEL GENERATORS FUEL TANK 8,245 GALLONS

YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the storage tank?		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in containment area, including sheen?		
		Is there any leakage around tank fittings?		
		Is there any leakage around piping?		
		Any standing water in containment? If yes, visible sheen?		
		Is drain valve in box outside containment in closed position?		
		Verify function of sump pump downstream of secondary containment drain valve		

OTHER OBSERVATIONS

INSPECTED BY: BILL OSBORN
PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 5 – BTX LIGHT OIL STORAGE TANKS 2-42,000 GALLONS				
YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the storage tanks?		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in containment area, including sheen?		
		Is there any leakage around tank fittings?		
		Is there any leakage around piping?		
		Any standing water in containment? ? If yes, visible sheen?		
		Is drain valve closed position?		
		Verify function of loading area sump pump		
OTHER OBSERVATIONS				

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 6 – TANKER TRUCK LOADING AREA

YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from nearby storage tanks or associated containment?		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in truck loading area, including on pavement surface or in containment sump?		
		Is there any leakage around visible tank or piping fittings?		
		Is there any leakage around transfer piping?		
		Any standing water in containment? If yes, visible sheen?		
		Verify function of loading area sump pump		

OTHER OBSERVATIONS

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 7 – WASH OIL TANK FARM

NEW WASH OIL – 20,000 GALLON TANK ; OLD WASH OIL – 10,000 GALLON TANK;
CAUSTIC FEED – 20,000 GALLON TANK; CAUSTIC MIX – 10,000 GALLON TANK

YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the wash oil storage tanks?		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in either containment area, including sheen?		
		Is there any leakage around tank fittings?		
		Is there any leakage around piping?		
		Any standing water in containment? If yes, visible sheen?		
		Verify operation of loading area sump pump prior to verifying operation of wash oil and caustic containment sump pumps		

OTHER OBSERVATIONS

INSPECTED BY: BILL OSBORN
PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____DEMO_____INSPECTION TIME_____

DEMO

– KEROSENE STORAGE TANKS 500 GALLONS

YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the storage tanks:		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in containment areas including sheen?		
		Is there any leakage around fitting?		
		Is there any leakage around piping?		
		Any standing water in containment?		
		Any visible oil residue or leakage from the storage tanks?		

OTHER OBSERVATIONS

DEMO – NO LONGER IN USE

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Plant Manager or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 8 – GASOLINE STORAGE TANK 1,000 GALLONS				
YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the storage tank?		
		Any visible damage to secondary containment? Dispenser pump or hose?		
		Any visible spills, residue, or leakage in containment area or on ground surface?		
		Is there any leakage around tank fittings or supports?		
		Is there any leakage around dispenser or fuel dispensing hose/nozzle?		
		Any standing water in containment?		
		Verify drain valve is in closed position		
OTHER OBSERVATIONS				

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 16 – PROCESS AREAS AND PROCESS EQUIPMENT BY-PRODUCTS				
YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the tanks, vessels, process equipment?		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in containment areas including sheen?		
		Is there any leakage around tank fittings?		
		Is there any leakage around process or transfer piping?		
		Are Byproduct Area trench drains, sumps and transfer pumps functional?		
		Any accumulations of oil, solids or debris evident on improved surfacing that may interfere with proper operation of pumping systems?		
		Are raw materials and waste containers in the Byproducts Area properly located and labeled?		
OTHER OBSERVATIONS				

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the Inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 15 – VARIED PORTABLE CONTAINERS
Storeroom

YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the drums, totes or pails at this storage location?		
		Are containers stored on spill pallets or other means of containment?		
		Any visible spills, residue, or leakage in containment area?		
		Are excess inventories stored outdoors? Provided with spill pallet or other means of containment?		
		Are flammables in storage at this location? If used for dispensing, are the containers properly grounded? Labeled?		
		Is adequate aisle space provided to allow for inspection?		
		Is sufficient spill response equipment, inventory available to address damage to single largest container?		
OTHER OBSERVATIONS				

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 17 – COAL YARD AND COAL PILES				
YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		ARE COAL PILES IN DRAINAGE DITCHES?		
		Is there significant coal dust sediment in the drainage ditches?		
		Is there significant coal dust sediment behind the rock check dams?		
		Is there significant coal dust build-up in the sedimentation basin?		
		Is there significant coal dust build-up in the retention pond?		
		Is there any blockage of storm drains or culverts leading to sedimentation basin?		
		Are material stockpiles properly segregated?		
		Are rolloff containers tarped?		
		Is there any oil accumulation on surface of sedimentation basin? On surface of retention pond?		
		Are oil booms in ponds in good condition? Replace as needed, and properly manage spent booms		
		Is retention pond drain valve closed? Any debris or trash requiring removal prior to next discharge event?		
OTHER OBSERVATIONS				

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 11 – SILO DIESEL TANK 25,000 GALLONS				
YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the storage tank?		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in containment area, including sheen?		
		Is there any leakage around tank fittings?		
		Is there any leakage around piping?		
		Any standing water in containment?		
		Verify operation of sump pump and level controls		
OTHER OBSERVATIONS				

INSPECTED BY: BILL OSBORN

PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 12 – LOCOMOTIVE FUEL TANKS
DIESEL – 20,000 GALLON TANK
DIESEL – 1,000 GALLON TANK

YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the storage tanks?:		
		All transfer pipes properly labeled?		
		Any visible spills, residue, or leakage in containment areas including sheen?		
		Is there any leakage around tank fittings?		
		Is there any leakage around piping?		
		Any standing water or solids accumulation in containment sump or trench?		
		Verify operation of sump pump and level controls		

OTHER OBSERVATIONS

INSPECTED BY: BILL OSBORN
PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.

EXHIBIT NO. 6

MONTHLY SPCC INSPECTION CHECKLIST

INSPECTION DATE_____INSPECTION TIME_____

SOURCE 13 – CONTAINER REPAIR BUILDING USED OIL 500 GALLON TANK NEW OIL – (2) 500 GALLON TANKS; (2) 1,000 GALLON TANKS				
YES	NO	INSPECTION SECTION	COMMENT	CORRECTIVE ACTION
		Any visible oil residue or leakage from the storage tanks, totes or drums?		
		Where drums and totes provided with spill pallets, any accumulated fluid needing management?		
		All transfer pipes or dispenser hoses properly labeled?		
		Any visible spills, residue, or leakage in containment trench leading to Locomotive AST sump?		
		Any excess petroleum contaminated absorbent material on floor or in trench?		
		Is there adequate spill response inventory in place to address spills inside Container Repair Building?		
		Any standing water in containment trench or sumps?		
OTHER OBSERVATIONS				

INSPECTED BY: BILL OSBORN

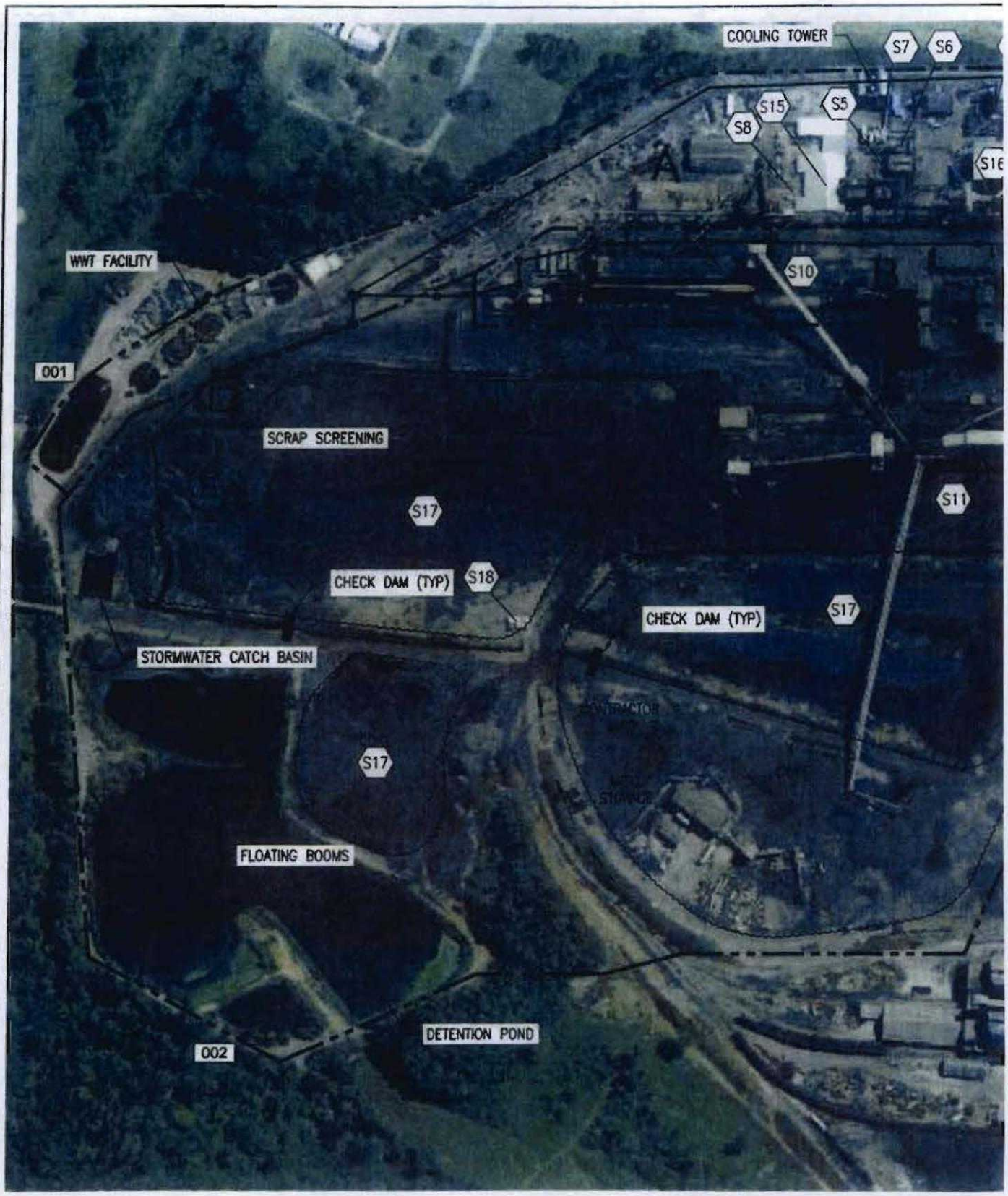
PRINTED NAME

SIGNATURE:_____

On a monthly basis, the Environmental Coordinator or his appropriate designee shall visually inspect the potential pollution sources, potential pollution areas, secondary containment for any changes and problems since the previous inspection. The inspection should include, at a minimum, observations to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents , bulges, etc);
2. Improper position of drums;
3. Oil spills in truck unloading areas;
4. Oil spills in equipment areas;
5. Improper housekeeping activities.

All problems and questionable conditions shall be noted on the inspection form and immediately reported to the Environmental Manager. All necessary corrective action shall be undertaken in a timely manner and shall be recorded. All inspection records shall be maintained for a minimum of three years.



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9.5 **Exhibit Number 5 – Compliance Checklist**

ABC COKE DIVISION, DRUMMOND COMPANY INC.
TARRANT, ALABAMA
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

- If a spill occurs, follow Contingency Plan procedures and clean up immediately.
- Conduct oil handling employee training yearly or sooner as needed for new oil handling employees and record in Personnel Training Log.
- Conduct daily casual safety/housekeeping inspections and monthly SPCC inspections as indicated by the Plan and record on the Inspection Checklist that follows
- Conduct source inspection as necessary but not less than once a quarter and note in the Source Inspection Records that follow.
- Review and evaluate the SPCC Plan every five (5) years.
- Amend the SPCC Plan within six (6) months whenever there is a change in the facility design, construction, operation, or maintenance that materially affects its potential for an oil discharge.
- Report to the National Response Center any spill which causes so much as a sheen on the surface waters of the United States. Report to the EPA Regional Administrator any single spill greater than 1,000 gallons or any two (2) spills greater than 42 gallons each within any consecutive 12 month period which discharge into a natural waterway.

On a monthly basis, the Environmental Coordinator or his/her appropriate designee shall visually inspect storage tanks, containment areas, valves, piping, pipe supports, etc., for any changes and problems since the previous inspection. The inspection should include, at a minimum, observation to identify any evidence of the following:

1. Signs of leakage or deterioration (rust, cracks, dents, bulges, etc);
2. Improper positioning of drums;
3. Improper positioning of valves;
4. Locks or warning signs not in place;
5. Improperly capped fittings;
6. Oil spills in truck loading/unloading areas;
7. Oil spills along pipe routing;
8. Oil spills in equipment areas;
9. Loss of structural integrity of tank supports, or storage tank;
10. Improper housekeeping activities;
11. Weakening pipe structures; and
12. Sagging pipes between supports.

Problems and questionable conditions shall be noted on the following inspection form and immediately reported to the Engineering Manager. Necessary corrective action shall be undertaken in a timely manner and shall be recorded. Inspection records shall be maintained for a minimum of three (3) years.

9.7 Exhibit Number 7 – Tank Testing and Repair Log

RECORD OF TANK TESTING AND REPAIRS

Tank Identification	Test Date	Method of Testing	Problems Noted	Description of Repairs Performed	Date Performed	Initials

Inspection Schedule for Shop-Fabricated ASTs and Portable Containers

Source: Steel Tank Institute Standard for the Inspection of Aboveground Storage Tanks SP001, Issued July 2006, 4th Edition

AST Type and Size (U.S. gallons)		Category 1	Category 2	Category 3
Shop-Fabricated ASTs	0 – 1,100	P	P	P, E&L(10)
	1,101 – 5,000	P	P, E&L(10)	[P, E&L(5), I(10)] or [P, L(2), E(5)]
	5,001 – 30,000	P, E(20)	[P, E(10), I(20)] or [P, E(5), L(10)]	[P, E&L(5), I(10)] or [P, L(1), E(5)]
	30,000 – 50,000	P, E(20)	P, E&L(5), I(15)	P, E&L(5), I(10)
Portable Containers		P	P	P**

** Owner shall either discontinue use of portable container for storage or have the portable container DOT (Department of Transportation) tested per the following schedule (refer to SP001 4th Ed. Section 9.0 Leak Test Methods)
Plastic portable container – every 7 years
Steel portable container – every 12 years
Stainless Steel portable container – every 17 years

Category 1 – ASTs with spill control, and with Continuous Release Detection Method

Category 2 – ASTs with spill control, and without Continuous Release Detection Method

Category 3 – ASTs without spill control, and without Continuous Release Detection Method

Note: Continuous Release Detection Method (CRDM) defined as a means of detecting a release of liquid through inherent design. It is passive because it does not require sensors or power to operate. Liquid releases are visually detected by facility operators. The system shall be designed in accordance with good engineering practice. Several acceptable and commonly used CRDM systems are as follows:

- Release prevention barrier (RPB) – a liquid containment barrier that is sufficiently impervious to the liquid being stored and is installed under the AST to divert leaks toward the perimeter of the AST where they can be easily detected as well as to prevent liquid from contaminating the environment. RPBs are composed of materials compatible with the liquid stored in the AST and meet proper engineering standards. Examples are steel (such as in steel double-bottom tanks), concrete, elastomeric liners, or other suitable materials provided that the above criteria are met.
- Secondary containment AST including double-wall AST or double-bottom AST
- Elevated AST (an AST not in contact with the ground and which is raised above the surface of the ground or bottom of a vault using tank supports allowing for visual external inspection of the bottom of the primary tank) with release prevention barrier

P – Periodic AST Inspections – Personnel performing these inspections shall be knowledgeable of storage facility operations, the type of AST and its associated components, and characteristics of the liquid stored. Inspections are to be conducted as per SP001 4th Ed. Section 6.0 Periodic AST Inspections.

- The owner's inspector is to complete the STI SP001 AST Record (Attached) for each AST or tank site as designated in the checklists. Note special conditions and changes or alterations to the tank.
- The owner's inspector is to complete the STI SP001 Monthly Inspection Checklist (Attached) for each month. Take note of instructions on the checklist. Note special conditions.
- The owner's inspector is to complete the STI SP001 Annual Inspection Checklist (Attached) each year. Take note of instructions on the checklist. Note special conditions.
- For portable containers, the owner's inspector is to complete only the STI SP001 Portable Container Monthly Inspection Checklist (Attached) each month. Take note of the instructions on the checklist. Note special conditions.
- As an alternative, if documentation is kept on-site for each portable container that indicates how long each has been kept at the facility, then the owner's inspector is to complete only the STI SP001 Portable Container Monthly Inspection Checklist each month for containers on-site for 91 days or more. Take note of the instructions on the checklist. Note special conditions.

(Continued on Page 2)

E – Formal external inspection by certified inspector as per SP001 4th Ed. Section 4.0 AST Inspector Qualifications and Section 7.0 Formal Inspection Guidelines

I – Formal internal inspection by certified inspector as per SP001 4th Ed. Section 4.0 AST Inspector Qualifications and Section 8.0 Formal Internal Inspection Guidelines

L – Leak test by owner or owner's designee as per SP001 4th Ed. Section 9.0 Leak Testing Methods

( ) – Maximum inspection interval in years

9.8 Exhibit Number 8 – Personnel Response Training Log

NAME	RESPONSE TRAINING / TOPICS	DATE AND NUMBER OF HOURS

9.9 Exhibit Number 9 – 40 CFR Part 112 – Oil Pollution Prevention

40 CFR PART 112 – OIL POLLUTION PREVENTION

Subpart A—Applicability, Definitions, and General Requirements for All Facilities and All Types of Oils
§ 112.1 General applicability.
§ 112.2 Definitions.
§ 112.3 Requirement to prepare and implement a Spill Prevention, Control, and Countermeasure Plan.
§ 112.4 Amendment of Spill Prevention, Control, and Countermeasure Plan by Regional Administrator.
§ 112.5 Amendment of Spill Prevention, Control, and Countermeasure Plan by owners or operators.
§ 112.6 Qualified Facilities Plan Requirements.
§ 112.7 General requirements for Spill Prevention, Control, and Countermeasure Plans.
Subpart B—Requirements for Petroleum Oils and Non-Petroleum Oils, Except Animal Fats and Oils and Greases, and Fish and Marine Mammal Oils; and Vegetable Oils (Including Oils from Seeds, Nuts, Fruits, and Kernels)
§ 112.8 Spill Prevention, Control, and Countermeasure Plan requirements for onshore facilities (excluding production facilities).
§ 112.9 Spill Prevention, Control, and Countermeasure Plan Requirements for onshore oil production facilities (excluding drilling and workover facilities).
§ 112.10 Spill Prevention, Control, and Countermeasure Plan requirements for onshore oil drilling and workover facilities.
§ 112.11 Spill Prevention, Control, and Countermeasure Plan requirements for offshore oil drilling, production, or workover facilities.
Subpart C—Requirements for Animal Fats and Oils and Greases, and Fish and Marine Mammal Oils; and for Vegetable Oils, including Oils from Seeds, Nuts, Fruits, and Kernels.
§ 112.12 Spill Prevention, Control, and Countermeasure Plan requirements.
§§ 112.13-112.15 [Reserved]
Subpart D—Response Requirements
§ 112.20 Facility response plans.
§ 112.21 Facility response training and drills/exercises.
Appendix A to Part 112—Memorandum of Understanding Between the Secretary of Transportation and the Administrator of the Environmental Protection Agency
Appendix B to Part 112—Memorandum of Understanding Among the Secretary of the Interior, Secretary of Transportation, and Administrator of the Environmental Protection Agency
Appendix C to Part 112—Substantial Harm Criteria
Appendix D to Part 112—Determination of a Worst Case Discharge Planning Volume
Appendix E to Part 112—Determination and Evaluation of Required Response Resources for Facility Response Plans
Appendix F to Part 112—Facility-Specific Response Plan
Appendix G to Part 112—Tier I Qualified Facility SPCC Plan

Authority: 33 U.S.C. 1251 *et seq.*; 33 U.S.C. 2720; E.O. 12777 (October 18, 1991), 3 CFR, 1991 Comp., p. 351.

Source: 38 FR 34165, Dec. 11, 1973, unless otherwise noted.

Editorial Note: Nomenclature changes to part 112 appear at 65 FR 40798, June 30, 2000.

Subpart A—Applicability, Definitions, and General Requirements for All Facilities and All Types of Oils

Source: 67 FR 47140, July 17, 2002, unless otherwise noted.

§ 112.1 General applicability.

(a)(1) This part establishes procedures, methods, equipment, and other requirements to prevent the discharge of oil from non-transportation-related onshore and offshore facilities into or upon the navigable waters of the United States or adjoining shorelines, or into or upon the waters of the contiguous zone, or in connection with activities under the Outer Continental Shelf Lands Act or the Deepwater Port Act of 1974, or that may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Magnuson Fishery Conservation and Management Act).

(2) As used in this part, words in the singular also include the plural and words in the masculine gender also include the feminine and vice versa, as the case may require.

(b) Except as provided in paragraph (d) of this section, this part applies to any owner or operator of a non-transportation-related onshore or offshore facility engaged in drilling, producing, gathering, storing, processing, refining, transferring, distributing, using, or consuming oil and oil products, which due to its location, could reasonably be expected to

discharge oil in quantities that may be harmful, as described in part 110 of this chapter, into or upon the navigable waters of the United States or adjoining shorelines, or into or upon the waters of the contiguous zone, or in connection with activities under the Outer Continental Shelf Lands Act or the Deepwater Port Act of 1974, or that may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Magnuson Fishery Conservation and Management Act) that has oil in:

(1) Any aboveground container;

(2) Any completely buried tank as defined in §112.2;

(3) Any container that is used for standby storage, for seasonal storage, or for temporary storage, or not otherwise "permanently closed" as defined in §112.2;

(4) Any "bunkered tank" or "partially buried tank" as defined in §112.2, or any container in a vault, each of which is considered an aboveground storage container for purposes of this part.

(c) As provided in section 313 of the Clean Water Act (CWA), departments, agencies, and instrumentalities of the Federal government are subject to this part to the same extent as any person.

(d) Except as provided in paragraph (f) of this section, this part does not apply to:

(1) The owner or operator of any facility, equipment, or operation that is not subject to the jurisdiction of the Environmental Protection Agency (EPA) under section 311(j)(1)(C) of the CWA, as follows:

(i) Any onshore or offshore facility, that due to its location, could not reasonably be expected to have a discharge as described in paragraph (b) of this section. This determination must be based solely upon consideration of the geographical and location aspects of the facility (such as proximity to navigable waters or adjoining shorelines, land contour, drainage, etc.) and must exclude consideration of manmade features such as dikes, equipment or other structures, which may serve to restrain, hinder, contain, or otherwise prevent a discharge as described in paragraph (b) of this section.

(ii) Any equipment, or operation of a vessel or transportation-related onshore or offshore facility which is subject to the authority and control of the U.S. Department of Transportation, as defined in the Memorandum of Understanding between the Secretary of Transportation and the Administrator of EPA, dated November 24, 1971 (Appendix A of this part).

(iii) Any equipment, or operation of a vessel or onshore or offshore facility which is subject to the authority and control of the U.S. Department of Transportation or the U.S. Department of the Interior, as defined in the Memorandum of Understanding between the Secretary of Transportation, the Secretary of the Interior, and the Administrator of EPA, dated November 8, 1993 (Appendix B of this part).

(2) Any facility which, although otherwise subject to the jurisdiction of EPA, meets both of the following requirements:

(i) The completely buried storage capacity of the facility is 42,000 U.S. gallons or less of oil. For purposes of this exemption, the completely buried storage capacity of a facility excludes the capacity of a completely buried tank, as defined in §112.2, and connected underground piping, underground ancillary equipment, and containment systems, that is currently subject to all of the technical requirements of part 280 of this chapter or all of the technical requirements of a State program approved under part 281 of this chapter, or the capacity of any underground oil storage tanks deferred under 40 CFR part 280 that supply emergency diesel generators at a nuclear power generation facility licensed by the Nuclear Regulatory Commission and subject to any Nuclear Regulatory Commission provision regarding design and quality criteria, including, but not limited to, 10 CFR part 50. The completely buried storage capacity of a facility also excludes the capacity of a container that is "permanently closed," as defined in §112.2 and the capacity of intra-facility gathering lines subject to the regulatory requirements of 49 CFR part 192 or 195.

(ii) The aggregate aboveground storage capacity of the facility is 1,320 U.S. gallons or less of oil. For the purposes of this exemption, only containers with a capacity of 55 U.S. gallons or greater are counted. The aggregate aboveground storage capacity of a facility excludes:

(A) The capacity of a container that is "permanently closed" as defined in §112.2;

(B) The capacity of a "motive power container" as defined in §112.2;

(C) The capacity of hot-mix asphalt or any hot-mix asphalt container;

(D) The capacity of a container for heating oil used solely at a single-family residence;

(E) The capacity of pesticide application equipment and related mix containers.

(3) Any offshore oil drilling, production, or workover facility that is subject to the notices and regulations of the Minerals Management Service, as specified in the Memorandum of Understanding between the Secretary of Transportation, the

Secretary of the Interior, and the Administrator of EPA, dated November 8, 1993 (Appendix B of this part).
(4) Any completely buried storage tank, as defined in §112.2, and connected underground piping, underground ancillary equipment, and containment systems, at any facility, that is subject to all of the technical requirements of part 280 of this chapter or a State program approved under part 281 of this chapter, or any underground oil storage tanks including below-grade vaulted tanks, deferred under 40 CFR part 280, as originally promulgated, that supply emergency diesel generators at a nuclear power generation facility licensed by the Nuclear Regulatory Commission, provided that such a tank is subject to any Nuclear Regulatory Commission provision regarding design and quality criteria, including, but not limited to, 10 CFR part 50. Such emergency generator tanks must be marked on the facility diagram as provided in §112.7(a)(3), if the facility is otherwise subject to this part.
(5) Any container with a storage capacity of less than 55 gallons of oil.
(6) Any facility or part thereof used exclusively for wastewater treatment and not used to satisfy any requirement of this part. The production, recovery, or recycling of oil is not wastewater treatment for purposes of this paragraph.
(7) Any "motive power container," as defined in §112.2. The transfer of fuel or other oil into a motive power container at an otherwise regulated facility is not eligible for this exemption.
(8) Hot-mix asphalt, or any hot-mix asphalt container.
(9) Any container for heating oil used solely at a single-family residence.
(10) Any pesticide application equipment or related mix containers.
(11) Intra-facility gathering lines subject to the regulatory requirements of 49 CFR part 192 or 195, except that such a line's location must be identified and marked as "exempt" on the facility diagram as provided in §112.7(a)(3), if the facility is otherwise subject to this part.
(e) This part establishes requirements for the preparation and implementation of Spill Prevention, Control, and Countermeasure (SPCC) Plans. SPCC Plans are designed to complement existing laws, regulations, rules, standards, policies, and procedures pertaining to safety standards, fire prevention, and pollution prevention rules. The purpose of an SPCC Plan is to form a comprehensive Federal/State spill prevention program that minimizes the potential for discharges. The SPCC Plan must address all relevant spill prevention, control, and countermeasures necessary at the specific facility. Compliance with this part does not in any way relieve the owner or operator of an onshore or an offshore facility from compliance with other Federal, State, or local laws.
(f) Notwithstanding paragraph (d) of this section, the Regional Administrator may require that the owner or operator of any facility subject to the jurisdiction of EPA under section 311(j) of the CWA prepare and implement an SPCC Plan, or any applicable part, to carry out the purposes of the CWA.
(1) Following a preliminary determination, the Regional Administrator must provide a written notice to the owner or operator stating the reasons why he must prepare an SPCC Plan, or applicable part. The Regional Administrator must send such notice to the owner or operator by certified mail or by personal delivery. If the owner or operator is a corporation, the Regional Administrator must also mail a copy of such notice to the registered agent, if any and if known, of the corporation in the State where the facility is located.
(2) Within 30 days of receipt of such written notice, the owner or operator may provide information and data and may consult with the Agency about the need to prepare an SPCC Plan, or applicable part.
(3) Within 30 days following the time under paragraph (b)(2) of this section within which the owner or operator may provide information and data and consult with the Agency about the need to prepare an SPCC Plan, or applicable part, the Regional Administrator must make a final determination regarding whether the owner or operator is required to prepare and implement an SPCC Plan, or applicable part. The Regional Administrator must send the final determination to the owner or operator by certified mail or by personal delivery. If the owner or operator is a corporation, the Regional Administrator must also mail a copy of the final determination to the registered agent, if any and if known, of the corporation in the State where the facility is located.
(4) If the Regional Administrator makes a final determination that an SPCC Plan, or applicable part, is necessary, the owner or operator must prepare the Plan, or applicable part, within six months of that final determination and implement the Plan, or applicable part, as soon as possible, but not later than one year after the Regional Administrator has made a final determination.
(5) The owner or operator may appeal a final determination made by the Regional Administrator requiring preparation and implementation of an SPCC Plan, or applicable part, under this paragraph. The owner or operator must make the appeal to the

Administrator of EPA within 30 days of receipt of the final determination under paragraph (b)(3) of this section from the Regional Administrator requiring preparation and/or implementation of an SPCC Plan, or applicable part. The owner or operator must send a complete copy of the appeal to the Regional Administrator at the time he makes the appeal to the Administrator. The appeal must contain a clear and concise statement of the issues and points of fact in the case. In the appeal, the owner or operator may also provide additional information. The additional information may be from any person. The Administrator may request additional information from the owner or operator. The Administrator must render a decision within 60 days of receiving the appeal or additional information submitted by the owner or operator and must serve the owner or operator with the decision made in the appeal in the manner described in paragraph (f)(1) of this section. [67 FR 47140, July 17, 2002, as amended at 71 FR 77290, Dec. 26, 2006; 73 FR 74300, Dec. 5, 2008; 74 FR 58809, Nov. 13, 2009]

§ 112.2 Definitions.

For the purposes of this part:

Adverse weather means weather conditions that make it difficult for response equipment and personnel to clean up or remove spilled oil, and that must be considered when identifying response systems and equipment in a response plan for the applicable operating environment. Factors to consider include significant wave height as specified in Appendix E to this part (as appropriate), ice conditions, temperatures, weather-related visibility, and currents within the area in which the systems or equipment is intended to function.

Alteration means any work on a container involving cutting, burning, welding, or heating operations that changes the physical dimensions or configuration of the container.

Animal fat means a non-petroleum oil, fat, or grease of animal, fish, or marine mammal origin.

Breakout tank means a container used to relieve surges in an oil pipeline system or to receive and store oil transported by a pipeline for reinjection and continued transportation by pipeline.

Bulk storage container means any container used to store oil. These containers are used for purposes including, but not limited to, the storage of oil prior to use, while being used, or prior to further distribution in commerce. Oil-filled electrical, operating, or manufacturing equipment is not a bulk storage container.

Bunkered tank means a container constructed or placed in the ground by cutting the earth and re-covering the container in a manner that breaks the surrounding natural grade, or that lies above grade, and is covered with earth, sand, gravel, asphalt, or other material. A bunkered tank is considered an aboveground storage container for purposes of this part.

Completely buried tank means any container completely below grade and covered with earth, sand, gravel, asphalt, or other material. Containers in vaults, bunkered tanks, or partially buried tanks are considered aboveground storage containers for purposes of this part.

Complex means a facility possessing a combination of transportation-related and non-transportation-related components that is subject to the jurisdiction of more than one Federal agency under section 311(j) of the CWA.

Contiguous zone means the zone established by the United States under Article 24 of the Convention of the Territorial Sea and Contiguous Zone, that is contiguous to the territorial sea and that extends nine miles seaward from the outer limit of the territorial area.

Contract or other approved means means:

(1) A written contractual agreement with an oil spill removal organization that identifies and ensures the availability of the necessary personnel and equipment within appropriate response times; and/or

(2) A written certification by the owner or operator that the necessary personnel and equipment resources, owned or operated by the facility owner or operator, are available to respond to a discharge within appropriate response times; and/or

(3) Active membership in a local or regional oil spill removal organization that has identified and ensures adequate access through such membership to necessary personnel and equipment to respond to a discharge within appropriate response times in the specified geographic area; and/or

(4) Any other specific arrangement approved by the Regional Administrator upon request of the owner or operator.

Discharge includes, but is not limited to, any spilling, leaking, pumping, pouring, emitting, emptying, or dumping of oil, but excludes discharges in compliance with a permit under section 402 of the CWA; discharges resulting from circumstances identified, reviewed, and made a part of the public record with respect to a permit issued or modified under section 402 of the CWA, and subject to a condition in such permit; or continuous or anticipated intermittent discharges from a point source, identified in a permit or permit application under section 402 of the CWA, that are caused by

events occurring within the scope of relevant operating or treatment systems. For purposes of this part, the term discharge shall not include any discharge of oil that is authorized by a permit issued under section 13 of the River and Harbor Act of 1899 (33 U.S.C. 407).

Facility means any mobile or fixed, onshore or offshore building, property, parcel, lease, structure, installation, equipment, pipe, or pipeline (other than a vessel or a public vessel) used in oil well drilling operations, oil production, oil refining, oil storage, oil gathering, oil processing, oil transfer, oil distribution, and oil waste treatment, or in which oil is used, as described in Appendix A to this part. The boundaries of a facility depend on several site-specific factors, including but not limited to, the ownership or operation of buildings, structures, and equipment on the same site and types of activity at the site. Contiguous or non-contiguous buildings, properties, parcels, leases, structures, installations, pipes, or pipelines under the ownership or operation of the same person may be considered separate facilities. Only this definition governs whether a facility is subject to this part.

Farm means a facility on a tract of land devoted to the production of crops or raising of animals, including fish, which produced and sold, or normally would have produced and sold, $1,000 or more of agricultural products during a year.

Fish and wildlife and sensitive environments means areas that may be identified by their legal designation or by evaluations of Area Committees (for planning) or members of the Federal On-Scene Coordinator's spill response structure (during responses). These areas may include wetlands, National and State parks, critical habitats for endangered or threatened species, wilderness and natural resource areas, marine sanctuaries and estuarine reserves, conservation areas, preserves, wildlife areas, wildlife refuges, wild and scenic rivers, recreational areas, national forests, Federal and State lands that are research national areas, heritage program areas, land trust areas, and historical and archaeological sites and parks. These areas may also include unique habitats such as aquaculture sites and agricultural surface water intakes, bird nesting areas, critical biological resource areas, designated migratory routes, and designated seasonal habitats.

Injury means a measurable adverse change, either long- or short-term, in the chemical or physical quality or the viability of a natural resource resulting either directly or indirectly from exposure to a discharge, or exposure to a product of reactions resulting from a discharge.

Loading/unloading rack means a fixed structure (such as a platform, gangway) necessary for loading or unloading a tank truck or tank car, which is located at a facility subject to the requirements of this part. A loading/unloading rack includes a loading or unloading arm, and may include any combination of the following: piping assemblages, valves, pumps, shut-off devices, overfill sensors, or personnel safety devices.

Maximum extent practicable means within the limitations used to determine oil spill planning resources and response times for on-water recovery, shoreline protection, and cleanup for worst case discharges from onshore non-transportation-related facilities in adverse weather. It includes the planned capability to respond to a worst case discharge in adverse weather, as contained in a response plan that meets the requirements in §112.20 or in a specific plan approved by the Regional Administrator.

Mobile refueler means a bulk storage container onboard a vehicle or towed, that is designed or used solely to store and transport fuel for transfer into or from an aircraft, motor vehicle, locomotive, vessel, ground service equipment, or other oil storage container.

Motive power container means any onboard bulk storage container used primarily to power the movement of a motor vehicle, or ancillary onboard oil-filled operational equipment. An onboard bulk storage container which is used to store or transfer oil for further distribution is not a motive power container. The definition of motive power container does not include oil drilling or workover equipment, including rigs.

Navigable waters of the United States means "navigable waters" as defined in section 502(7) of the FWPCA, and includes:

(1) All navigable waters of the United States, as defined in judicial decisions prior to passage of the 1972 Amendments to the FWPCA (Pub. L. 92–500), and tributaries of such waters;

(2) Interstate waters;

(3) Intrastate lakes, rivers, and streams which are utilized by interstate travelers for recreational or other purposes; and

(4) Intrastate lakes, rivers, and streams from which fish or shellfish are taken and sold in interstate commerce.

Non-petroleum oil means oil of any kind that is not petroleum-based, including but not limited to: Fats, oils, and greases of animal, fish, or marine mammal origin; and vegetable oils, including oils from seeds, nuts, fruits, and kernels.

Offshore facility means any facility of any kind (other than a vessel or public vessel) located in, on, or

under any of the navigable waters of the United States, and any facility of any kind that is subject to the jurisdiction of the United States and is located in, on, or under any other waters.

Oil means oil of any kind or in any form, including, but not limited to: fats, oils, or greases of animal, fish, or marine mammal origin; vegetable oils, including oils from seeds, nuts, fruits, or kernels; and, other oils and greases, including petroleum, fuel oil, sludge, synthetic oils, mineral oils, oil refuse, or oil mixed with wastes other than dredged spoil.

Oil-filled operational equipment means equipment that includes an oil storage container (or multiple containers) in which the oil is present solely to support the function of the apparatus or the device. Oil-filled operational equipment is not considered a bulk storage container, and does not include oil-filled manufacturing equipment (flow-through process). Examples of oil-filled operational equipment include, but are not limited to, hydraulic systems, lubricating systems (e.g. , those for pumps, compressors and other rotating equipment, including pumpjack lubrication systems), gear boxes, machining coolant systems, heat transfer systems, transformers, circuit breakers, electrical switches, and other systems containing oil solely to enable the operation of the device.

Oil Spill Removal Organization means an entity that provides oil spill response resources, and includes any for-profit or not-for-profit contractor, cooperative, or in-house response resources that have been established in a geographic area to provide required response resources.

Onshore facility means any facility of any kind located in, on, or under any land within the United States, other than submerged lands.

Owner or operator means any person owning or operating an onshore facility or an offshore facility, and in the case of any abandoned offshore facility, the person who owned or operated or maintained the facility immediately prior to such abandonment.

Partially buried tank means a storage container that is partially inserted or constructed in the ground, but not entirely below grade, and not completely covered with earth, sand, gravel, asphalt, or other material. A partially buried tank is considered an aboveground storage container for purposes of this part.

Permanently closed means any container or facility for which:

(1) All liquid and sludge has been removed from each container and connecting line; and

(2) All connecting lines and piping have been disconnected from the container and blanked off, all valves (except for ventilation valves) have been closed and locked, and conspicuous signs have been posted on each container stating that it is a permanently closed container and noting the date of closure.

Person includes an individual, firm, corporation, association, or partnership.

Petroleum oil means petroleum in any form, including but not limited to crude oil, fuel oil, mineral oil, sludge, oil refuse, and refined products.

Produced water container means a storage container at an oil production facility used to store the produced water after initial oil/water separation, and prior to reinjection, beneficial reuse, discharge, or transfer for disposal.

Production facility means all structures (including but not limited to wells, platforms, or storage facilities), piping (including but not limited to flowlines or intra-facility gathering lines), or equipment (including but not limited to workover equipment, separation equipment, or auxiliary non-transportation-related equipment) used in the production, extraction, recovery, lifting, stabilization, separation or treating of oil (including condensate), or associated storage or measurement, and is located in an oil or gas field, at a facility. This definition governs whether such structures, piping, or equipment are subject to a specific section of this part.

Regional Administrator means the Regional Administrator of the Environmental Protection Agency, in and for the Region in which the facility is located.

Repair means any work necessary to maintain or restore a container to a condition suitable for safe operation, other than that necessary for ordinary, day-to-day maintenance to maintain the functional integrity of the container and that does not weaken the container.

Spill Prevention, Control, and Countermeasure Plan; SPCC Plan, or Plan means the document required by §112.3 that details the equipment, workforce, procedures, and steps to prevent, control, and provide adequate countermeasures to a discharge.

Storage capacity of a container means the shell capacity of the container.

Transportation-related and non-transportation-related , as applied to an onshore or offshore facility, are defined in the Memorandum of Understanding between the Secretary of Transportation and the Administrator of the Environmental Protection Agency, dated November 24, 1971, (appendix A of this part).

United States means the States, the District of Columbia, the Commonwealth of Puerto Rico, the Commonwealth of the Northern Mariana Islands, Guam, American Samoa, the U.S. Virgin Islands, and

the Pacific Island Governments.
Vegetable oil means a non-petroleum oil or fat of vegetable origin, including but not limited to oils and fats derived from plant seeds, nuts, fruits, and kernels.
Vessel means every description of watercraft or other artificial contrivance used, or capable of being used, as a means of transportation on water, other than a public vessel.
Wetlands means those areas that are inundated or saturated by surface or groundwater at a frequency or duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include playa lakes, swamps, marshes, bogs, and similar areas such as sloughs, prairie potholes, wet meadows, prairie river overflows, mudflats, and natural ponds.
Worst case discharge for an onshore non-transportation-related facility means the largest foreseeable discharge in adverse weather conditions as determined using the worksheets in Appendix D to this part.
[67 FR 47140, July 17, 2002, as amended at 71 FR 77290, Dec. 26, 2006; 73 FR 71943, Nov. 26, 2008; 73 FR 74300, Dec. 5, 2008]

§ 112.3 Requirement to prepare and implement a Spill Prevention, Control, and Countermeasure Plan.

The owner or operator or an onshore or offshore facility subject to this section must prepare in writing and implement a Spill Prevention Control and Countermeasure Plan (hereafter "SPCC Plan" or "Plan")," in accordance with §112.7 and any other applicable section of this part.
(a) If your onshore or offshore facility was in operation on or before August 16, 2002, you must maintain your Plan, but must amend it, if necessary to ensure compliance with this part, and implement the Plan no later than November 10, 2010. If your onshore or offshore facility becomes operational after August 16, 2002, through November 10, 2010, and could reasonably be expected to have a discharge as described in §112.1(b), you must prepare and implement a Plan on or before November 10, 2010.
(b)(1) If you are the owner or operator of an onshore or offshore facility (excluding oil production facilities) that becomes operational after November 10, 2010, and could reasonably be expected to have a discharge as described in §112.1(b), you must prepare and implement a Plan before you begin operations.
(2) If you are the owner or operator of an oil production facility that becomes operational after November 10, 2010, and could reasonably be expected to have a discharge as described in §112.1(b), you must prepare and implement a Plan within six months after you begin operations.
(c) If you are the owner or operator of an onshore or offshore mobile facility, such as an onshore drilling or workover rig, barge mounted offshore drilling or workover rig, or portable fueling facility, you must prepare, implement, and maintain a facility Plan as required by this section. You must maintain your Plan, but must amend and implement it, if necessary to ensure compliance with this part, on or before November 10, 2010. If your onshore or offshore mobile facility becomes operational after November 10, 2010, and could reasonably be expected to have a discharge as described in §112.1(b), you must prepare and implement a Plan before you begin operations. This provision does not require that you prepare a new Plan each time you move the facility to a new site. The Plan may be a general Plan. When you move the mobile or portable facility, you must locate and install it using the discharge prevention practices outlined in the Plan for the facility. The Plan is applicable only while the facility is in a fixed (non-transportation) operating mode.
(d) Except as provided in §112.6, a licensed Professional Engineer must review and certify a Plan for it to be effective to satisfy the requirements of this part.
(1) By means of this certification the Professional Engineer attests:
(i) That he is familiar with the requirements of this part ;
(ii) That he or his agent has visited and examined the facility;
(iii) That the Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards, and with the requirements of this part;
(iv) That procedures for required inspections and testing have been established; and
(v) That the Plan is adequate for the facility.
(vi) That, if applicable, for a produced water container subject to §112.9(c)(6), any procedure to minimize the amount of free-phase oil is designed to reduce the accumulation of free-phase oil and the procedures and frequency for required inspections, maintenance and testing have been established and are described in the Plan.
(2) Such certification shall in no way relieve the owner or operator of a facility of his duty to prepare and fully implement such Plan in accordance with the requirements of this part.

(e) If you are the owner or operator of a facility for which a Plan is required under this section, you must:
(1) Maintain a complete copy of the Plan at the facility if the facility is normally attended at least four hours per day, or at the nearest field office if the facility is not so attended, and
(2) Have the Plan available to the Regional Administrator for on-site review during normal working hours.
(f) *Extension of time.* (1) The Regional Administrator may authorize an extension of time for the preparation and full implementation of a Plan, or any amendment thereto, beyond the time permitted for the preparation, implementation, or amendment of a Plan under this part, when he finds that the owner or operator of a facility subject to this section, cannot fully comply with the requirements as a result of either nonavailability of qualified personnel, or delays in construction or equipment delivery beyond the control and without the fault of such owner or operator or his agents or employees.
(2) If you are an owner or operator seeking an extension of time under paragraph (f)(1) of this section, you may submit a written extension request to the Regional Administrator. Your request must include:
(i) A full explanation of the cause for any such delay and the specific aspects of the Plan affected by the delay;
(ii) A full discussion of actions being taken or contemplated to minimize or mitigate such delay; and
(iii) A proposed time schedule for the implementation of any corrective actions being taken or contemplated, including interim dates for completion of tests or studies, installation and operation of any necessary equipment, or other preventive measures. In addition you may present additional oral or written statements in support of your extension request.
(3) The submission of a written extension request under paragraph (f)(2) of this section does not relieve you of your obligation to comply with the requirements of this part. The Regional Administrator may request a copy of your Plan to evaluate the extension request. When the Regional Administrator authorizes an extension of time for particular equipment or other specific aspects of the Plan, such extension does not affect your obligation to comply with the requirements related to other equipment or other specific aspects of the Plan for which the Regional Administrator has not expressly authorized an extension.
(g) *Qualified Facilities.* The owner or operator of a qualified facility as defined in this subparagraph may self-certify his facility's Plan, as provided in §112.6. A qualified facility is one that meets the following Tier I or Tier II qualified facility criteria:
(1) A Tier I qualified facility meets the qualification criteria in paragraph (g)(2) of this section and has no individual aboveground oil storage container with a capacity greater than 5,000 U.S. gallons.
(2) A Tier II qualified facility is one that has had no single discharge as described in §112.1(b) exceeding 1,000 U.S. gallons or no two discharges as described in §112.1(b) each exceeding 42 U.S. gallons within any twelve month period in the three years prior to the SPCC Plan self-certification date, or since becoming subject to this part if the facility has been in operation for less than three years (other than discharges as described in §112.1(b) that are the result of natural disasters, acts of war, or terrorism), and has an aggregate aboveground oil storage capacity of 10,000 U.S. gallons or less.
[67 FR 47140, July 17, 2002, as amended at 68 FR 1351, Jan. 9, 2003; 68 FR 18894, Apr. 17, 2003; 69 FR 48798, Aug. 11, 2004; 71 FR 8466, Feb. 17, 2006; 71 FR 77290, Dec. 26, 2006; 72 FR 27447, May 16, 2007; 73 FR 74301, Dec. 5, 2008, 74 FR 29141, June 19, 2009; 74 FR 58809, Nov. 13, 2009]) each exceeding 42 U.S. gallons

§ 112.4 Amendment of Spill Prevention, Control, and Countermeasure Plan by Regional Administrator.

If you are the owner or operator of a facility subject to this part, you must:
(a) Notwithstanding compliance with §112.3, whenever your facility has discharged more than 1,000 U.S. gallons of oil in a single discharge as described in §112.1(b), or discharged more than 42 U.S. gallons of oil in each of two discharges as described in §112.1(b), occurring within any twelve month period, submit the following information to the Regional Administrator within 60 days from the time the facility becomes subject to this section:
(1) Name of the facility;
(2) Your name;
(3) Location of the facility;
(4) Maximum storage or handling capacity of the facility and normal daily throughput;
(5) Corrective action and countermeasures you have taken, including a description of equipment repairs and replacements;
(6) An adequate description of the facility, including maps, flow diagrams, and topographical maps, as necessary;
(7) The cause of such discharge as described in

§112.1(b), including a failure analysis of the system or subsystem in which the failure occurred;
(8) Additional preventive measures you have taken or contemplated to minimize the possibility of recurrence; and
(9) Such other information as the Regional Administrator may reasonably require pertinent to the Plan or discharge.
(b) Take no action under this section until it applies to your facility. This section does not apply until the expiration of the time permitted for the initial preparation and implementation of the Plan under §112.3, but not including any amendments to the Plan.
(c) Send to the appropriate agency or agencies in charge of oil pollution control activities in the State in which the facility is located a complete copy of all information you provided to the Regional Administrator under paragraph (a) of this section. Upon receipt of the information such State agency or agencies may conduct a review and make recommendations to the Regional Administrator as to further procedures, methods, equipment, and other requirements necessary to prevent and to contain discharges from your facility.
(d) Amend your Plan, if after review by the Regional Administrator of the information you submit under paragraph (a) of this section, or submission of information to EPA by the State agency under paragraph (c) of this section, or after on-site review of your Plan, the Regional Administrator requires that you do so. The Regional Administrator may require you to amend your Plan if he finds that it does not meet the requirements of this part or that amendment is necessary to prevent and contain discharges from your facility.
(e) Act in accordance with this paragraph when the Regional Administrator proposes by certified mail or by personal delivery that you amend your SPCC Plan. If the owner or operator is a corporation, he must also notify by mail the registered agent of such corporation, if any and if known, in the State in which the facility is located. The Regional Administrator must specify the terms of such proposed amendment. Within 30 days from receipt of such notice, you may submit written information, views, and arguments on the proposed amendment. After considering all relevant material presented, the Regional Administrator must either notify you of any amendment required or rescind the notice. You must amend your Plan as required within 30 days after such notice, unless the Regional Administrator, for good cause, specifies another effective date. You must implement the amended Plan as soon as possible, but not later than six months after you amend your Plan, unless the Regional Administrator specifies another date.
(f) If you appeal a decision made by the Regional Administrator requiring an amendment to an SPCC Plan, send the appeal to the EPA Administrator in writing within 30 days of receipt of the notice from the Regional Administrator requiring the amendment under paragraph (e) of this section. You must send a complete copy of the appeal to the Regional Administrator at the time you make the appeal. The appeal must contain a clear and concise statement of the issues and points of fact in the case. It may also contain additional information from you, or from any other person. The EPA Administrator may request additional information from you, or from any other person. The EPA Administrator must render a decision within 60 days of receiving the appeal and must notify you of his decision.

§ 112.5 Amendment of Spill Prevention, Control, and Countermeasure Plan by owners or operators.

If you are the owner or operator of a facility subject to this part, you must:
(a) Amend the SPCC Plan for your facility in accordance with the general requirements in §112.7, and with any specific section of this part applicable to your facility, when there is a change in the facility design, construction, operation, or maintenance that materially affects its potential for a discharge as described in §112.1(b). Examples of changes that may require amendment of the Plan include, but are not limited to: commissioning or decommissioning containers; replacement, reconstruction, or movement of containers; reconstruction, replacement, or installation of piping systems; construction or demolition that might alter secondary containment structures; changes of product or service; or revision of standard operation or maintenance procedures at a facility. An amendment made under this section must be prepared within six months, and implemented as soon as possible, but not later than six months following preparation of the amendment.
(b) Notwithstanding compliance with paragraph (a) of this section, complete a review and evaluation of the SPCC Plan at least once every five years from the date your facility becomes subject to this part; or, if your facility was in operation on or before August 16, 2002, five years from the date your last review was required under this part. As a result of this review and evaluation, you must amend your SPCC Plan within six months of the review to include more effective prevention and control technology if the technology has been field-proven at

the time of the review and will significantly reduce the likelihood of a discharge as described in §112.1(b) from the facility. You must implement any amendment as soon as possible, but not later than six months following preparation of any amendment. You must document your completion of the review and evaluation, and must sign a statement as to whether you will amend the Plan, either at the beginning or end of the Plan or in a log or an appendix to the Plan. The following words will suffice, "I have completed review and evaluation of the SPCC Plan for (name of facility) on (date), and will (will not) amend the Plan as a result."
(c) Except as provided in §112.6, have a Professional Engineer certify any technical amendments to your Plan in accordance with §112.3(d).
[67 FR 47140, July 17, 2002, as amended at 71 FR 77291, Dec. 26, 2006; 73 FR 74301, Dec. 5, 2008; 74 FR 58809, Nov. 13, 2009]

§ 112.6 Qualified Facilities Plan Requirements.

Qualified facilities meeting the Tier I applicability criteria in §112.3(g)(1) are subject to the requirements in paragraph (a) of this section. Qualified facilities meeting the Tier II applicability criteria in §112.3(g)(2) are subject to the requirements in paragraph (b) of this section.
(a) *Tier I Qualified Facilities* —(1) *Preparation and Self-Certification of the Plan.* If you are an owner or operator of a facility that meets the Tier I qualified facility criteria in §112.3(g)(1), you must either: comply with the requirements of paragraph (a)(3) of this section; or prepare and implement a Plan meeting requirements of paragraph (b) of this section; or prepare and implement a Plan meeting the general Plan requirements in §112.7 and applicable requirements in subparts B and C, including having the Plan certified by a Professional Engineer as required under §112.3(d). If you do not follow the Appendix G template, you must prepare an equivalent Plan that meets all of the applicable requirements listed in this part, and you must supplement it with a section cross-referencing the location of requirements listed in this part and the equivalent requirements in the other prevention plan. To complete the template in Appendix G, you must certify that:
(i) You are familiar with the applicable requirements of 40 CFR part 112;
(ii) You have visited and examined the facility;
(iii) You prepared the Plan in accordance with accepted and sound industry practices and standards;
(iv) You have established procedures for required inspections and testing in accordance with industry inspection and testing standards or recommended practices;
(v) You will fully implement the Plan;
(vi) The facility meets the qualification criteria in §112.3(g)(1);
(vii) The Plan does not deviate from any requirement of this part as allowed by §112.7(a)(2) and 112.7(d) or include measures pursuant to §112.9(c)(6) for produced water containers and any associated piping; and
(viii) The Plan and individual(s) responsible for implementing this Plan have the approval of management, and the facility owner or operator has committed the necessary resources to fully implement this Plan.
(2) *Technical Amendments.* You must certify any technical amendments to your Plan in accordance with paragraph (a)(1) of this section when there is a change in the facility design, construction, operation, or maintenance that affects its potential for a discharge as described in §112.1(b). If the facility change results in the facility no longer meeting the Tier I qualifying criteria in §112.3(g)(1) because an individual oil storage container capacity exceeds 5,000 U.S. gallons or the facility capacity exceeds 10,000 U.S. gallons in aggregate aboveground storage capacity, within six months following preparation of the amendment, you must either:
(i) Prepare and implement a Plan in accordance with §112.6(b) if you meet the Tier II qualified facility criteria in §112.3(g)(2); or
(ii) Prepare and implement a Plan in accordance with the general Plan requirements in §112.7, and applicable requirements in subparts B and C, including having the Plan certified by a Professional Engineer as required under §112.3(d).
(3) *Plan Template and Applicable Requirements.* Prepare and implement an SPCC Plan that meets the following requirements under §112.7 and in subparts B and C of this part: introductory paragraph of §§112.7, 112.7(a)(3)(i), 112.7(a)(3)(iv), 112.7(a)(3)(vi), 112.7(a)(4), 112.7(a)(5), 112.7(c), 112.7(e), 112.7(f), 112.7(g), 112.7(k), 112.8(b)(1), 112.8(b)(2), 112.8(c)(1), 112.8(c)(3), 112.8(c)(4), 112.8(c)(5), 112.8(c)(6), 112.8(c)(10), 112.8(d)(4), 112.9(b), 112.9(c)(1), 112.9(c)(2), 112.9(c)(3), 112.9(c)(4), 112.9(c)(5), 112.9(d)(1), 112.9(d)(3), 112.9(d)(4), 112.10(b), 112.10(c), 112.10(d), 112.12(b)(1), 112.12(b)(2), 112.12(c)(1), 112.12(c)(3), 112.12(c)(4), 112.12(c)(5), 112.12(c)(6), 112.12(c)(10), and 112.12(d)(4). The template in Appendix G to this part has been developed to meet the requirements of 40 CFR part 112 and, when completed and signed by the owner or operator, may be used as the SPCC Plan. Additionally, you must meet the following

requirements:
(i) *Failure analysis, in lieu of the requirements in §112.7(b).* Where experience indicates a reasonable potential for equipment failure (such as loading or unloading equipment, tank overflow, rupture, or leakage, or any other equipment known to be a source of discharge), include in your Plan a prediction of the direction and total quantity of oil which could be discharged from the facility as a result of each type of major equipment failure.
(ii) *Bulk storage container secondary containment, in lieu of the requirements in §§112.8(c)(2) and (c)(11) and 112.12(c)(2) and (c)(11).* Construct all bulk storage container installations (except mobile refuelers and other non-transportation-related tank trucks), including mobile or portable oil storage containers, so that you provide a secondary means of containment for the entire capacity of the largest single container plus additional capacity to contain precipitation. Dikes, containment curbs, and pits are commonly employed for this purpose. You may also use an alternative system consisting of a drainage trench enclosure that must be arranged so that any discharge will terminate and be safely confined in a catchment basin or holding pond. Position or locate mobile or portable oil storage containers to prevent a discharge as described in §112.1(b).
(iii) *Overfill prevention, in lieu of the requirements in §§112.8(c)(8) and 112.12(c)(8).* Ensure that each container is provided with a system or documented procedure to prevent overfills of the container, describe the system or procedure in the SPCC Plan and regularly test to ensure proper operation or efficacy.
(b) *Tier II Qualified Facilities* —(1) *Preparation and Self-Certification of Plan.* If you are the owner or operator of a facility that meets the Tier II qualified facility criteria in §112.3(g)(2), you may choose to self-certify your Plan. You must certify in the Plan that:
(i) You are familiar with the requirements of this part;
(ii) You have visited and examined the facility;
(iii) The Plan has been prepared in accordance with accepted and sound industry practices and standards, and with the requirements of this part;
(iv) Procedures for required inspections and testing have been established;
(v) You will fully implement the Plan;
(vi) The facility meets the qualification criteria set forth under §112.3(g)(2);
(vii) The Plan does not deviate from any requirement of this part as allowed by §112.7(a)(2) and 112.7(d) or include measures pursuant to §112.9(c)(6) for produced water containers and any associated piping, except as provided in paragraph (b)(3) of this section; and
(viii) The Plan and individual(s) responsible for implementing the Plan have the full approval of management and the facility owner or operator has committed the necessary resources to fully implement the Plan.
(2) *Technical Amendments.* If you self-certify your Plan pursuant to paragraph (b)(1) of this section, you must certify any technical amendments to your Plan in accordance with paragraph (b)(1) of this section when there is a change in the facility design, construction, operation, or maintenance that affects its potential for a discharge as described in §112.1(b), except:
(i) If a Professional Engineer certified a portion of your Plan in accordance with paragraph (b)(4) of this section, and the technical amendment affects this portion of the Plan, you must have the amended provisions of your Plan certified by a Professional Engineer in accordance with paragraph (b)(4)(ii) of this section.
(ii) If the change is such that the facility no longer meets the Tier II qualifying criteria in §112.3(g)(2) because it exceeds 10,000 U.S. gallons in aggregate aboveground storage capacity you must, within six months following the change, prepare and implement a Plan in accordance with the general Plan requirements in §112.7 and the applicable requirements in subparts B and C of this part, including having the Plan certified by a Professional Engineer as required under §112.3(d).
(3) *Applicable Requirements.* Except as provided in this paragraph, your self-certified SPCC Plan must comply with §112.7 and the applicable requirements in subparts B and C of this part:
(i) *Environmental Equivalence.* Your Plan may not include alternate methods which provide environmental equivalence pursuant to §112.7(a)(2), unless each alternate method has been reviewed and certified in writing by a Professional Engineer, as provided in paragraph (b)(4) of this section.
(ii) *Impracticability.* Your Plan may not include any determinations that secondary containment is impracticable and provisions in lieu of secondary containment pursuant to §112.7(d), unless each such determination and alternate measure has been reviewed and certified in writing by a Professional Engineer, as provided in paragraph (b)(4) of this section.
(iii) *Produced Water Containers.* Your Plan may not include any alternative procedures for skimming produced water containers in lieu of sized secondary containment pursuant to §112.9(c)(6), unless they have been reviewed and certified in writing by a Professional Engineer, as provided in paragraph

(b)(4) of this section.

(4) *Professional Engineer Certification of Portions of a Qualified Facility's Self-Certified Plan.*

(i) As described in paragraph (b)(3) of this section, the facility owner or operator may not self-certify alternative measures allowed under §112.7(a)(2) or (d), that are included in the facility's Plan. Such measures must be reviewed and certified, in writing, by a licensed Professional Engineer. For each alternative measure allowed under §112.7(a)(2), the Plan must be accompanied by a written statement by a Professional Engineer that states the reason for nonconformance and describes the alternative method and how it provides equivalent environmental protection in accordance with §112.7(a)(2). For each determination of impracticability of secondary containment pursuant to §112.7(d), the Plan must clearly explain why secondary containment measures are not practicable at this facility and provide the alternative measures required in §112.7(d) in lieu of secondary containment. By certifying each measure allowed under §112.7(a)(2) and (d), the Professional Engineer attests:

(A) That he is familiar with the requirements of this part;

(B) That he or his agent has visited and examined the facility; and

(C) That the alternative method of environmental equivalence in accordance with §112.7(a)(2) or the determination of impracticability and alternative measures in accordance with §112.7(d) is consistent with good engineering practice, including consideration of applicable industry standards, and with the requirements of this part.

(ii) As described in paragraph (b)(3) of this section, the facility owner or operator may not self-certify measures as described in §112.9(c)(6) for produced water containers and any associated piping. Such measures must be reviewed and certified, in writing, by a licensed Professional Engineer, in accordance with §112.3(d)(1)(vi).

(iii) The review and certification by the Professional Engineer under this paragraph is limited to the alternative method which achieves equivalent environmental protection pursuant to §112.7(a)(2); to the impracticability determination and measures in lieu of secondary containment pursuant to §112.7(d); or the measures pursuant to §112.9(c)(6) for produced water containers and any associated piping and appurtenances downstream from the container.

[73 FR 74302, Dec. 5, 2008, as amended at 74 FR 58810, Nov. 13, 2009]

§ 112.7 General requirements for Spill Prevention, Control, and Countermeasure Plans.

If you are the owner or operator of a facility subject to this part you must prepare a Plan in accordance with good engineering practices. The Plan must have the full approval of management at a level of authority to commit the necessary resources to fully implement the Plan. You must prepare the Plan in writing. If you do not follow the sequence specified in this section for the Plan, you must prepare an equivalent Plan acceptable to the Regional Administrator that meets all of the applicable requirements listed in this part, and you must supplement it with a section cross-referencing the location of requirements listed in this part and the equivalent requirements in the other prevention plan. If the Plan calls for additional facilities or procedures, methods, or equipment not yet fully operational, you must discuss these items in separate paragraphs, and must explain separately the details of installation and operational start-up. As detailed elsewhere in this section, you must also:

(a)(1) Include a discussion of your facility's conformance with the requirements listed in this part.

(2) Comply with all applicable requirements listed in this part. Except as provided in §112.6, your Plan may deviate from the requirements in paragraphs (g), (h)(2) and (3), and (i) of this section and the requirements in subparts B and C of this part, except the secondary containment requirements in paragraphs (c) and (h)(1) of this section, and §§112.8(c)(2), 112.8(c)(11), 112.9(c)(2), 112.9(d)(3), 112.10(c), 112.12(c)(2), and 112.12(c)(11), where applicable to a specific facility, if you provide equivalent environmental protection by some other means of spill prevention, control, or countermeasure. Where your Plan does not conform to the applicable requirements in paragraphs (g), (h)(2) and (3), and (i) of this section, or the requirements of subparts B and C of this part, except the secondary containment requirements in paragraph (c) and (h)(1) of this section, and §§112.8(c)(2), 112.8(c)(11), 112.9(c)(2), 112.10(c), 112.12(c)(2), and 112.12(c)(11), you must state the reasons for nonconformance in your Plan and describe in detail alternate methods and how you will achieve equivalent environmental protection. If the Regional Administrator determines that the measures described in your Plan do not provide equivalent environmental protection, he may require that you amend your Plan, following the procedures in §112.4(d) and (e).

(3) Describe in your Plan the physical layout of the

facility and include a facility diagram, which must mark the location and contents of each fixed oil storage container and the storage area where mobile or portable containers are located. The facility diagram must identify the location of and mark as "exempt" underground tanks that are otherwise exempted from the requirements of this part under §112.1(d)(4). The facility diagram must also include all transfer stations and connecting pipes, including intra-facility gathering lines that are otherwise exempted from the requirements of this part under §112.1(d)(11). You must also address in your Plan:
(i) The type of oil in each fixed container and its storage capacity. For mobile or portable containers, either provide the type of oil and storage capacity for each container or provide an estimate of the potential number of mobile or portable containers, the types of oil, and anticipated storage capacities;
(ii) Discharge prevention measures including procedures for routine handling of products (loading, unloading, and facility transfers, etc.);
(iii) Discharge or drainage controls such as secondary containment around containers and other structures, equipment, and procedures for the control of a discharge;
(iv) Countermeasures for discharge discovery, response, and cleanup (both the facility's capability and those that might be required of a contractor);
(v) Methods of disposal of recovered materials in accordance with applicable legal requirements; and
(vi) Contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with whom you have an agreement for response, and all appropriate Federal, State, and local agencies who must be contacted in case of a discharge as described in §112.1(b).
(4) Unless you have submitted a response plan under §112.20, provide information and procedures in your Plan to enable a person reporting a discharge as described in §112.1(b) to relate information on the exact address or location and phone number of the facility; the date and time of the discharge, the type of material discharged; estimates of the total quantity discharged; estimates of the quantity discharged as described in §112.1(b); the source of the discharge; a description of all affected media; the cause of the discharge; any damages or injuries caused by the discharge; actions being used to stop, remove, and mitigate the effects of the discharge; whether an evacuation may be needed; and, the names of individuals and/or organizations who have also been contacted.
(5) Unless you have submitted a response plan under §112.20, organize portions of the Plan describing procedures you will use when a discharge occurs in a way that will make them readily usable in an emergency, and include appropriate supporting material as appendices.
(b) Where experience indicates a reasonable potential for equipment failure (such as loading or unloading equipment, tank overflow, rupture, or leakage, or any other equipment known to be a source of a discharge), include in your Plan a prediction of the direction, rate of flow, and total quantity of oil which could be discharged from the facility as a result of each type of major equipment failure.
(c) Provide appropriate containment and/or diversionary structures or equipment to prevent a discharge as described in §112.1(b), except as provided in paragraph (k) of this section for qualified oil-filled operational equipment, and except as provided in §112.9(d)(3) for flowlines and intra-facility gathering lines at an oil production facility. The entire containment system, including walls and floor, must be capable of containing oil and must be constructed so that any discharge from a primary containment system, such as a tank, will not escape the containment system before cleanup occurs. In determining the method, design, and capacity for secondary containment, you need only to address the typical failure mode, and the most likely quantity of oil that would be discharged. Secondary containment may be either active or passive in design. At a minimum, you must use one of the following prevention systems or its equivalent:
(1) For onshore facilities:
(i) Dikes, berms, or retaining walls sufficiently impervious to contain oil;
(ii) Curbing or drip pans;
(iii) Sumps and collection systems;
(iv) Culverting, gutters, or other drainage systems;
(v) Weirs, booms, or other barriers;
(vi) Spill diversion ponds;
(vii) Retention ponds; or
(viii) Sorbent materials.
(2) For offshore facilities:
(i) Curbing or drip pans; or
(ii) Sumps and collection systems.
(d) Provided your Plan is certified by a licensed Professional Engineer under §112.3(d), or, in the case of a qualified facility that meets the criteria in §112.3(g), the relevant sections of your Plan are certified by a licensed Professional Engineer under §112.6(d), if you determine that the installation of any of the structures or pieces of equipment listed in paragraphs (c) and (h)(1) of this section, and §§112.8(c)(2), 112.8(c)(11), 112.9(c)(2), 112.10(c), 112.12(c)(2), and 112.12(c)(11) to prevent a discharge as described in §112.1(b) from any

onshore or offshore facility is not practicable, you must clearly explain in your Plan why such measures are not practicable; for bulk storage containers, conduct both periodic integrity testing of the containers and periodic integrity and leak testing of the valves and piping; and, unless you have submitted a response plan under §112.20, provide in your Plan the following:

(1) An oil spill contingency plan following the provisions of part 109 of this chapter.

(2) A written commitment of manpower, equipment, and materials required to expeditiously control and remove any quantity of oil discharged that may be harmful.

(e) *Inspections, tests, and records.* Conduct inspections and tests required by this part in accordance with written procedures that you or the certifying engineer develop for the facility. You must keep these written procedures and a record of the inspections and tests, signed by the appropriate supervisor or inspector, with the SPCC Plan for a period of three years. Records of inspections and tests kept under usual and customary business practices will suffice for purposes of this paragraph.

(f) *Personnel, training, and discharge prevention procedures.* (1) At a minimum, train your oil-handling personnel in the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and regulations; general facility operations; and, the contents of the facility SPCC Plan.

(2) Designate a person at each applicable facility who is accountable for discharge prevention and who reports to facility management.

(3) Schedule and conduct discharge prevention briefings for your oil-handling personnel at least once a year to assure adequate understanding of the SPCC Plan for that facility. Such briefings must highlight and describe known discharges as described in §112.1(b) or failures, malfunctioning components, and any recently developed precautionary measures.

(g) *Security (excluding oil production facilities).* Describe in your Plan how you secure and control access to the oil handling, processing and storage areas; secure master flow and drain valves; prevent unauthorized access to starter controls on oil pumps; secure out-of-service and loading/unloading connections of oil pipelines; and address the appropriateness of security lighting to both prevent acts of vandalism and assist in the discovery of oil discharges.

(2) Ensure that the master flow and drain valves and any other valves permitting direct outward flow of the container's contents to the surface have adequate security measures so that they remain in the closed position when in non-operating or non-standby status.

(3) Lock the starter control on each oil pump in the "off" position and locate it at a site accessible only to authorized personnel when the pump is in a non-operating or non-standby status.

(4) Securely cap or blank-flange the loading/unloading connections of oil pipelines or facility piping when not in service or when in standby service for an extended time. This security practice also applies to piping that is emptied of liquid content either by draining or by inert gas pressure.

(5) Provide facility lighting commensurate with the type and location of the facility that will assist in the:

(i) Discovery of discharges occurring during hours of darkness, both by operating personnel, if present, and by non-operating personnel (the general public, local police, etc.); and

(ii) Prevention of discharges occurring through acts of vandalism.

(h) *Facility tank car and tank truck loading/unloading rack (excluding offshore facilities).*

(1) Where loading/unloading rack drainage does not flow into a catchment basin or treatment facility designed to handle discharges, use a quick drainage system for tank car or tank truck loading/unloading racks. You must design any containment system to hold at least the maximum capacity of any single compartment of a tank car or tank truck loaded or unloaded at the facility.

(2) Provide an interlocked warning light or physical barrier system, warning signs, wheel chocks or vehicle brake interlock system in the area adjacent to a loading/unloading rack, to prevent vehicles from departing before complete disconnection of flexible or fixed oil transfer lines.

(3) Prior to filling and departure of any tank car or tank truck, closely inspect for discharges the lowermost drain and all outlets of such vehicles, and if necessary, ensure that they are tightened, adjusted, or replaced to prevent liquid discharge while in transit.

(i) If a field-constructed aboveground container undergoes a repair, alteration, reconstruction, or a change in service that might affect the risk of a discharge or failure due to brittle fracture or other catastrophe, or has discharged oil or failed due to brittle fracture failure or other catastrophe, evaluate the container for risk of discharge or failure due to brittle fracture or other catastrophe, and as necessary, take appropriate action.

(j) In addition to the minimal prevention standards listed under this section, include in your Plan a complete discussion of conformance with the applicable requirements and other effective

discharge prevention and containment procedures listed in this part or any applicable more stringent State rules, regulations, and guidelines.
(k) *Qualified Oil-filled Operational Equipment.* The owner or operator of a facility with oil-filled operational equipment that meets the qualification criteria in paragraph (k)(1) of this sub-section may choose to implement for this qualified oil-filled operational equipment the alternate requirements as described in paragraph (k)(2) of this sub-section in lieu of general secondary containment required in paragraph (c) of this section.
(1) *Qualification Criteria—Reportable Discharge History:* The owner or operator of a facility that has had no single discharge as described in §112.1(b) from any oil-filled operational equipment exceeding 1,000 U.S. gallons or no two discharges as described in §112.1(b) from any oil-filled operational equipment each exceeding 42 U.S. gallons within any twelve month period in the three years prior to the SPCC Plan certification date, or since becoming subject to this part if the facility has been in operation for less than three years (other than oil discharges as described in §112.1(b) that are the result of natural disasters, acts of war or terrorism); and
(2) *Alternative Requirements to General Secondary Containment.* If secondary containment is not provided for qualified oil-filled operational equipment pursuant to paragraph (c) of this section, the owner or operator of a facility with qualified oil-filled operational equipment must:
(i) Establish and document the facility procedures for inspections or a monitoring program to detect equipment failure and/or a discharge; and
(ii) Unless you have submitted a response plan under §112.20, provide in your Plan the following:
(A) An oil spill contingency plan following the provisions of part 109 of this chapter.
(B) A written commitment of manpower, equipment, and materials required to expeditiously control and remove any quantity of oil discharged that may be harmful.
[67 FR 47140, July 17, 2002, as amended at 71 FR 77292, Dec. 26, 2006; 73 FR 74303, Dec. 5, 2008; 74 FR 58810, Nov. 13, 2009]

Subpart B—Requirements for Petroleum Oils and Non-Petroleum Oils, Except Animal Fats and Oils and Greases, and Fish and Marine Mammal Oils; and Vegetable Oils (Including Oils from Seeds, Nuts, Fruits, and Kernels)

Source: 67 FR 47146, July 17, 2002, unless otherwise noted.

§ 112.8 Spill Prevention, Control, and Countermeasure Plan requirements for onshore facilities (excluding production facilities).

If you are the owner or operator of an onshore facility (excluding a production facility), you must:
(a) Meet the general requirements for the Plan listed under §112.7, and the specific discharge prevention and containment procedures listed in this section.
(b) *Facility drainage.* (1) Restrain drainage from diked storage areas by valves to prevent a discharge into the drainage system or facility effluent treatment system, except where facility systems are designed to control such discharge. You may empty diked areas by pumps or ejectors; however, you must manually activate these pumps or ejectors and must inspect the condition of the accumulation before starting, to ensure no oil will be discharged.
(2) Use valves of manual, open-and-closed design, for the drainage of diked areas. You may not use flapper-type drain valves to drain diked areas. If your facility drainage drains directly into a watercourse and not into an on-site wastewater treatment plant, you must inspect and may drain uncontaminated retained stormwater, as provided in paragraphs (c)(3)(ii), (iii), and (iv) of this section.
(3) Design facility drainage systems from undiked areas with a potential for a discharge (such as where piping is located outside containment walls or where tank truck discharges may occur outside the loading area) to flow into ponds, lagoons, or catchment basins designed to retain oil or return it to the facility. You must not locate catchment basins in areas subject to periodic flooding.
(4) If facility drainage is not engineered as in paragraph (b)(3) of this section, equip the final discharge of all ditches inside the facility with a diversion system that would, in the event of an uncontrolled discharge, retain oil in the facility.
(5) Where drainage waters are treated in more than one treatment unit and such treatment is continuous, and pump transfer is needed, provide two "lift" pumps and permanently install at least one of the pumps. Whatever techniques you use, you must engineer facility drainage systems to prevent a discharge as described in §112.1(b) in case there is an equipment failure or human error at the facility.
(c) *Bulk storage containers.* (1) Not use a container for the storage of oil unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature.
(2) Construct all bulk storage tank installations (except mobile refuelers and other non-transportation-related tank trucks) so that you

provide a secondary means of containment for the entire capacity of the largest single container and sufficient freeboard to contain precipitation. You must ensure that diked areas are sufficiently impervious to contain discharged oil. Dikes, containment curbs, and pits are commonly employed for this purpose. You may also use an alternative system consisting of a drainage trench enclosure that must be arranged so that any discharge will terminate and be safely confined in a facility catchment basin or holding pond.

(3) Not allow drainage of uncontaminated rainwater from the diked area into a storm drain or discharge of an effluent into an open watercourse, lake, or pond, bypassing the facility treatment system unless you:

(i) Normally keep the bypass valve sealed closed.

(ii) Inspect the retained rainwater to ensure that its presence will not cause a discharge as described in §112.1(b).

(iii) Open the bypass valve and reseal it following drainage under responsible supervision; and

(iv) Keep adequate records of such events, for example, any records required under permits issued in accordance with §§122.41(j)(2) and 122.41(m)(3) of this chapter.

(4) Protect any completely buried metallic storage tank installed on or after January 10, 1974 from corrosion by coatings or cathodic protection compatible with local soil conditions. You must regularly leak test such completely buried metallic storage tanks.

(5) Not use partially buried or bunkered metallic tanks for the storage of oil, unless you protect the buried section of the tank from corrosion. You must protect partially buried and bunkered tanks from corrosion by coatings or cathodic protection compatible with local soil conditions.

(6) Test or inspect each aboveground container for integrity on a regular schedule and whenever you make material repairs. You must determine, in accordance with industry standards, the appropriate qualifications for personnel performing tests and inspections, the frequency and type of testing and inspections, which take into account container size, configuration, and design (such as containers that are: shop-built, field-erected, skid-mounted, elevated, equipped with a liner, double-walled, or partially buried). Examples of these integrity tests include, but are not limited to: visual inspection, hydrostatic testing, radiographic testing, ultrasonic testing, acoustic emissions testing, or other systems of non-destructive testing. You must keep comparison records and you must also inspect the container's supports and foundations. In addition, you must frequently inspect the outside of the container for signs of deterioration, discharges, or accumulation of oil inside diked areas. Records of inspections and tests kept under usual and customary business practices satisfy the recordkeeping requirements of this paragraph.

(7) Control leakage through defective internal heating coils by monitoring the steam return and exhaust lines for contamination from internal heating coils that discharge into an open watercourse, or pass the steam return or exhaust lines through a settling tank, skimmer, or other separation or retention system.

(8) Engineer or update each container installation in accordance with good engineering practice to avoid discharges. You must provide at least one of the following devices:

(i) High liquid level alarms with an audible or visual signal at a constantly attended operation or surveillance station. In smaller facilities an audible air vent may suffice.

(ii) High liquid level pump cutoff devices set to stop flow at a predetermined container content level.

(iii) Direct audible or code signal communication between the container gauger and the pumping station.

(iv) A fast response system for determining the liquid level of each bulk storage container such as digital computers, telepulse, or direct vision gauges. If you use this alternative, a person must be present to monitor gauges and the overall filling of bulk storage containers.

(v) You must regularly test liquid level sensing devices to ensure proper operation.

(9) Observe effluent treatment facilities frequently enough to detect possible system upsets that could cause a discharge as described in §112.1(b).

(10) Promptly correct visible discharges which result in a loss of oil from the container, including but not limited to seams, gaskets, piping, pumps, valves, rivets, and bolts. You must promptly remove any accumulations of oil in diked areas.

(11) Position or locate mobile or portable oil storage containers to prevent a discharge as described in §112.1(b). Except for mobile refuelers and other non-transportation-related tank trucks, you must furnish a secondary means of containment, such as a dike or catchment basin, sufficient to contain the capacity of the largest single compartment or container with sufficient freeboard to contain precipitation.

(d) *Facility transfer operations, pumping, and facility process.* (1) Provide buried piping that is installed or replaced on or after August 16, 2002, with a protective wrapping and coating. You must also

cathodically protect such buried piping installations or otherwise satisfy the corrosion protection standards for piping in part 280 of this chapter or a State program approved under part 281 of this chapter. If a section of buried line is exposed for any reason, you must carefully inspect it for deterioration. If you find corrosion damage, you must undertake additional examination and corrective action as indicated by the magnitude of the damage.

(2) Cap or blank-flange the terminal connection at the transfer point and mark it as to origin when piping is not in service or is in standby service for an extended time.

(3) Properly design pipe supports to minimize abrasion and corrosion and allow for expansion and contraction.

(4) Regularly inspect all aboveground valves, piping, and appurtenances. During the inspection you must assess the general condition of items, such as flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces. You must also conduct integrity and leak testing of buried piping at the time of installation, modification, construction, relocation, or replacement.

(5) Warn all vehicles entering the facility to be sure that no vehicle will endanger aboveground piping or other oil transfer operations.

[67 FR 47146, July 17, 2002, as amended at 71 FR 77293, Dec. 26, 2006; 73 FR 74304, Dec. 5, 2008]

§ 112.9 Spill Prevention, Control, and Countermeasure Plan Requirements for onshore oil production facilities (excluding drilling and workover facilities).

If you are the owner or operator of an onshore oil production facility (excluding a drilling or workover facility), you must:

(a) Meet the general requirements for the Plan listed under §112.7, and the specific discharge prevention and containment procedures listed under this section.

(b) *Oil production facility drainage.* (1) At tank batteries and separation and treating areas where there is a reasonable possibility of a discharge as described in §112.1(b), close and seal at all times drains of dikes or drains of equivalent measures required under §112.7(c)(1), except when draining uncontaminated rainwater. Prior to drainage, you must inspect the diked area and take action as provided in §112.8(c)(3)(ii), (iii), and (iv). You must remove accumulated oil on the rainwater and return it to storage or dispose of it in accordance with legally approved methods.

(2) Inspect at regularly scheduled intervals field drainage systems (such as drainage ditches or road ditches), and oil traps, sumps, or skimmers, for an accumulation of oil that may have resulted from any small discharge. You must promptly remove any accumulations of oil.

(c) *Oil production facility bulk storage containers.* (1) Not use a container for the storage of oil unless its material and construction are compatible with the material stored and the conditions of storage.

(2) Except as described in paragraph (c)(5) of this section for flow-through process vessels and paragraph (c)(6) of this section for produced water containers and any associated piping and appurtenances downstream from the container, construct all tank battery, separation, and treating facility installations, so that you provide a secondary means of containment for the entire capacity of the largest single container and sufficient freeboard to contain precipitation. You must safely confine drainage from undiked areas in a catchment basin or holding pond.

(3) Except as described in paragraph (c)(5) of this section for flow-through process vessels and paragraph (c)(6) of this section for produced water containers and any associated piping and appurtenances downstream from the container, periodically and upon a regular schedule visually inspect each container of oil for deterioration and maintenance needs, including the foundation and support of each container that is on or above the surface of the ground.

(4) Engineer or update new and old tank battery installations in accordance with good engineering practice to prevent discharges. You must provide at least one of the following:

(i) Container capacity adequate to assure that a container will not overfill if a pumper/gauger is delayed in making regularly scheduled rounds.

(ii) Overflow equalizing lines between containers so that a full container can overflow to an adjacent container.

(iii) Vacuum protection adequate to prevent container collapse during a pipeline run or other transfer of oil from the container.

(iv) High level sensors to generate and transmit an alarm signal to the computer where the facility is subject to a computer production control system.

(5) *Flow-through process vessels.* The owner or operator of a facility with flow-through process vessels may choose to implement the alternate requirements as described below in lieu of sized secondary containment required in paragraphs (c)(2) and (c)(3) of this section.

(i) Periodically and on a regular schedule visually inspect and/or test flow-through process vessels and associated components (such as dump valves) for leaks, corrosion, or other conditions that could lead to a discharge as described in §112.1(b).
(ii) Take corrective action or make repairs to flow-through process vessels and any associated components as indicated by regularly scheduled visual inspections, tests, or evidence of an oil discharge.
(iii) Promptly remove or initiate actions to stabilize and remediate any accumulations of oil discharges associated with flow-through process vessels.
(iv) If your facility discharges more than 1,000 U.S. gallons of oil in a single discharge as described in §112.1(b), or discharges more than 42 U.S. gallons of oil in each of two discharges as described in §112.1(b) within any twelve month period, from flow-through process vessels (excluding discharges that are the result of natural disasters, acts of war, or terrorism) then you must, within six months from the time the facility becomes subject to this paragraph, ensure that all flow-through process vessels subject to this subpart comply with §112.9(c)(2) and (c)(3).
(6) *Produced water containers.* For each produced water container, comply with §112.9(c)(1) and (c)(4); and §112.9(c)(2) and (c)(3), or comply with the provisions of the following paragraphs (c)(6)(i) through (v):
(i) Implement, on a regular schedule, a procedure for each produced water container that is designed to separate the free-phase oil that accumulates on the surface of the produced water. Include in the Plan a description of the procedures, frequency, amount of free-phase oil expected to be maintained inside the container, and a Professional Engineer certification in accordance with §112.3(d)(1)(vi). Maintain records of such events in accordance with §112.7(e). Records kept under usual and customary business practices will suffice for purposes of this paragraph. If this procedure is not implemented as described in the Plan or no records are maintained, then you must comply with §112.9(c)(2) and (c)(3).
(ii) On a regular schedule, visually inspect and/or test the produced water container and associated piping for leaks, corrosion, or other conditions that could lead to a discharge as described in §112.1(b) in accordance with good engineering practice.
(iii) Take corrective action or make repairs to the produced water container and any associated piping as indicated by regularly scheduled visual inspections, tests, or evidence of an oil discharge.
(iv) Promptly remove or initiate actions to stabilize and remediate any accumulations of oil discharges associated with the produced water container.
(v) If your facility discharges more than 1,000 U.S. gallons of oil in a single discharge as described in §112.1(b), or discharges more than 42 U.S. gallons of oil in each of two discharges as described in §112.1(b) within any twelve month period from a produced water container subject to this subpart (excluding discharges that are the result of natural disasters, acts of war, or terrorism) then you must, within six months from the time the facility becomes subject to this paragraph, ensure that all produced water containers subject to this subpart comply with §112.9(c)(2) and (c)(3).
(d) *Facility transfer operations, oil production facility.* (1) Periodically and upon a regular schedule inspect all aboveground valves and piping associated with transfer operations for the general condition of flange joints, valve glands and bodies, drip pans, pipe supports, pumping well polish rod stuffing boxes, bleeder and gauge valves, and other such items.
(2) Inspect saltwater (oil field brine) disposal facilities often, particularly following a sudden change in atmospheric temperature, to detect possible system upsets capable of causing a discharge.
(3) For flowlines and intra-facility gathering lines that are not provided with secondary containment in accordance with §112.7(c), unless you have submitted a response plan under §112.20, provide in your Plan the following:
(i) An oil spill contingency plan following the provisions of part 109 of this chapter.
(ii) A written commitment of manpower, equipment, and materials required to expeditiously control and remove any quantity of oil discharged that might be harmful.
(4) Prepare and implement a written program of flowline/intra-facility gathering line maintenance. The maintenance program must address your procedures to:
(i) Ensure that flowlines and intra-facility gathering lines and associated valves and equipment are compatible with the type of production fluids, their potential corrosivity, volume, and pressure, and other conditions expected in the operational environment.
(ii) Visually inspect and/or test flowlines and intra-facility gathering lines and associated appurtenances on a periodic and regular schedule for leaks, oil discharges, corrosion, or other conditions that could lead to a discharge as described in §112.1(b). For flowlines and intra-facility gathering lines that are not provided with secondary containment in accordance with §112.7(c), the frequency and type of testing must allow for the implementation of a contingency plan as described under part 109 of this chapter.

(iii) Take corrective action or make repairs to any flowlines and intra-facility gathering lines and associated appurtenances as indicated by regularly scheduled visual inspections, tests, or evidence of a discharge.
(iv) Promptly remove or initiate actions to stabilize and remediate any accumulations of oil discharges associated with flowlines, intra-facility gathering lines, and associated appurtenances.
[73 FR, 74304, Dec. 5, 2008, as amended at 74 FR 58810, Nov. 13, 2009]

§ 112.10 Spill Prevention, Control, and Countermeasure Plan requirements for onshore oil drilling and workover facilities.

If you are the owner or operator of an onshore oil drilling and workover facility, you must:
(a) Meet the general requirements listed under §112.7, and also meet the specific discharge prevention and containment procedures listed under this section.
(b) Position or locate mobile drilling or workover equipment so as to prevent a discharge as described in §112.1(b).
(c) Provide catchment basins or diversion structures to intercept and contain discharges of fuel, crude oil, or oily drilling fluids.
(d) Install a blowout prevention (BOP) assembly and well control system before drilling below any casing string or during workover operations. The BOP assembly and well control system must be capable of controlling any well-head pressure that may be encountered while that BOP assembly and well control system are on the well.

§ 112.11 Spill Prevention, Control, and Countermeasure Plan requirements for offshore oil drilling, production, or workover facilities.

If you are the owner or operator of an offshore oil drilling, production, or workover facility, you must:
(a) Meet the general requirements listed under §112.7, and also meet the specific discharge prevention and containment procedures listed under this section.
(b) Use oil drainage collection equipment to prevent and control small oil discharges around pumps, glands, valves, flanges, expansion joints, hoses, drain lines, separators, treaters, tanks, and associated equipment. You must control and direct facility drains toward a central collection sump to prevent the facility from having a discharge as described in §112.1(b). Where drains and sumps are not practicable, you must remove oil contained in collection equipment as often as necessary to prevent overflow.
(c) For facilities employing a sump system, provide adequately sized sump and drains and make available a spare pump to remove liquid from the sump and assure that oil does not escape. You must employ a regularly scheduled preventive maintenance inspection and testing program to assure reliable operation of the liquid removal system and pump start-up device. Redundant automatic sump pumps and control devices may be required on some installations.
(d) At facilities with areas where separators and treaters are equipped with dump valves which predominantly fail in the closed position and where pollution risk is high, specially equip the facility to prevent the discharge of oil. You must prevent the discharge of oil by:
(1) Extending the flare line to a diked area if the separator is near shore;
(2) Equipping the separator with a high liquid level sensor that will automatically shut in wells producing to the separator; or
(3) Installing parallel redundant dump valves.
(e) Equip atmospheric storage or surge containers with high liquid level sensing devices that activate an alarm or control the flow, or otherwise prevent discharges.
(f) Equip pressure containers with high and low pressure sensing devices that activate an alarm or control the flow.
(g) Equip containers with suitable corrosion protection.
(h) Prepare and maintain at the facility a written procedure within the Plan for inspecting and testing pollution prevention equipment and systems.
(i) Conduct testing and inspection of the pollution prevention equipment and systems at the facility on a scheduled periodic basis, commensurate with the complexity, conditions, and circumstances of the facility and any other appropriate regulations. You must use simulated discharges for testing and inspecting human and equipment pollution control and countermeasure systems.
(j) Describe in detailed records surface and subsurface well shut-in valves and devices in use at the facility for each well sufficiently to determine their method of activation or control, such as pressure differential, change in fluid or flow conditions, combination of pressure and flow, manual or remote control mechanisms.
(k) Install a BOP assembly and well control system during workover operations and before drilling below any casing string. The BOP assembly and well control system must be capable of controlling any well-head pressure that may be encountered while

the BOP assembly and well control system are on the well.
(l) Equip all manifolds (headers) with check valves on individual flowlines.
(m) Equip the flowline with a high pressure sensing device and shut-in valve at the wellhead if the shut-in well pressure is greater than the working pressure of the flowline and manifold valves up to and including the header valves. Alternatively you may provide a pressure relief system for flowlines.
(n) Protect all piping appurtenant to the facility from corrosion, such as with protective coatings or cathodic protection.
(o) Adequately protect sub-marine piping appurtenant to the facility against environmental stresses and other activities such as fishing operations.
(p) Maintain sub-marine piping appurtenant to the facility in good operating condition at all times. You must periodically and according to a schedule inspect or test such piping for failures. You must document and keep a record of such inspections or tests at the facility.

Subpart C—Requirements for Animal Fats and Oils and Greases, and Fish and Marine Mammal Oils; and for Vegetable Oils, Including Oils from Seeds, Nuts, Fruits, and Kernels.

Source: 67 FR 57149, July 17, 2002, unless otherwise noted.

§ 112.12 Spill Prevention, Control, and Countermeasure Plan requirements.

If you are the owner or operator of an onshore facility, you must:
(a) Meet the general requirements for the Plan listed under §112.7, and the specific discharge prevention and containment procedures listed in this section.
(b) *Facility drainage.* (1) Restrain drainage from diked storage areas by valves to prevent a discharge into the drainage system or facility effluent treatment system, except where facility systems are designed to control such discharge. You may empty diked areas by pumps or ejectors; however, you must manually activate these pumps or ejectors and must inspect the condition of the accumulation before starting, to ensure no oil will be discharged.
(2) Use valves of manual, open-and-closed design, for the drainage of diked areas. You may not use flapper-type drain valves to drain diked areas. If your facility drainage drains directly into a watercourse and not into an on-site wastewater treatment plant, you must inspect and may drain uncontaminated retained stormwater, subject to the requirements of paragraphs (c)(3)(ii), (iii), and (iv) of this section.
(3) Design facility drainage systems from undiked areas with a potential for a discharge (such as where piping is located outside containment walls or where tank truck discharges may occur outside the loading area) to flow into ponds, lagoons, or catchment basins designed to retain oil or return it to the facility. You must not locate catchment basins in areas subject to periodic flooding.
(4) If facility drainage is not engineered as in paragraph (b)(3) of this section, equip the final discharge of all ditches inside the facility with a diversion system that would, in the event of an uncontrolled discharge, retain oil in the facility.
(5) Where drainage waters are treated in more than one treatment unit and such treatment is continuous, and pump transfer is needed, provide two "lift" pumps and permanently install at least one of the pumps. Whatever techniques you use, you must engineer facility drainage systems to prevent a discharge as described in §112.1(b) in case there is an equipment failure or human error at the facility.
(c) *Bulk storage containers.* (1) Not use a container for the storage of oil unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature.
(2) Construct all bulk storage tank installations (except mobile refuelers and other non-transportation-related tank trucks) so that you provide a secondary means of containment for the entire capacity of the largest single container and sufficient freeboard to contain precipitation. You must ensure that diked areas are sufficiently impervious to contain discharged oil. Dikes, containment curbs, and pits are commonly employed for this purpose. You may also use an alternative system consisting of a drainage trench enclosure that must be arranged so that any discharge will terminate and be safely confined in a facility catchment basin or holding pond.
(3) Not allow drainage of uncontaminated rainwater from the diked area into a storm drain or discharge of an effluent into an open watercourse, lake, or pond, bypassing the facility treatment system unless you:
(i) Normally keep the bypass valve sealed closed.
(ii) Inspect the retained rainwater to ensure that its presence will not cause a discharge as described in §112.1(b).
(iii) Open the bypass valve and reseal it following drainage under responsible supervision; and
(iv) Keep adequate records of such events, for example, any records required under permits issued in accordance with §§122.41(j)(2) and 122.41(m)(3)

of this chapter.
(4) Protect any completely buried metallic storage tank installed on or after January 10, 1974 from corrosion by coatings or cathodic protection compatible with local soil conditions. You must regularly leak test such completely buried metallic storage tanks.
(5) Not use partially buried or bunkered metallic tanks for the storage of oil, unless you protect the buried section of the tank from corrosion. You must protect partially buried and bunkered tanks from corrosion by coatings or cathodic protection compatible with local soil conditions.
(6) *Bulk storage container inspections.*
(i) Except for containers that meet the criteria provided in paragraph (c)(6)(ii) of this section, test or inspect each aboveground container for integrity on a regular schedule and whenever you make material repairs. You must determine, in accordance with industry standards, the appropriate qualifications for personnel performing tests and inspections, the frequency and type of testing and inspections, which take into account container size, configuration, and design (such as containers that are: shop-built, field-erected, skid-mounted, elevated, equipped with a liner, double-walled, or partially buried). Examples of these integrity tests include, but are not limited to: Visual inspection, hydrostatic testing, radiographic testing, ultrasonic testing, acoustic emissions testing, or other systems of non-destructive testing. You must keep comparison records and you must also inspect the container's supports and foundations. In addition, you must frequently inspect the outside of the container for signs of deterioration, discharges, or accumulation of oil inside diked areas. Records of inspections and tests kept under usual and customary business practices satisfy the recordkeeping requirements of this paragraph.
(ii) For bulk storage containers that are subject to 21 CFR part 110, are elevated, constructed of austenitic stainless steel, have no external insulation, and are shop-fabricated, conduct formal visual inspection on a regular schedule. In addition, you must frequently inspect the outside of the container for signs of deterioration, discharges, or accumulation of oil inside diked areas. You must determine and document in the Plan the appropriate qualifications for personnel performing tests and inspections. Records of inspections and tests kept under usual and customary business practices satisfy the recordkeeping requirements of this paragraph (c)(6).
(7) Control leakage through defective internal heating coils by monitoring the steam return and exhaust lines for contamination from internal heating coils that discharge into an open watercourse, or pass the steam return or exhaust lines through a settling tank, skimmer, or other separation or retention system.
(8) Engineer or update each container installation in accordance with good engineering practice to avoid discharges. You must provide at least one of the following devices:
(i) High liquid level alarms with an audible or visual signal at a constantly attended operation or surveillance station. In smaller facilities an audible air vent may suffice.
(ii) High liquid level pump cutoff devices set to stop flow at a predetermined container content level.
(iii) Direct audible or code signal communication between the container gauger and the pumping station.
(iv) A fast response system for determining the liquid level of each bulk storage container such as digital computers, telepulse, or direct vision gauges. If you use this alternative, a person must be present to monitor gauges and the overall filling of bulk storage containers.
(v) You must regularly test liquid level sensing devices to ensure proper operation.
(9) Observe effluent treatment facilities frequently enough to detect possible system upsets that could cause a discharge as described in §112.1(b).
(10) Promptly correct visible discharges which result in a loss of oil from the container, including but not limited to seams, gaskets, piping, pumps, valves, rivets, and bolts. You must promptly remove any accumulations of oil in diked areas.
(11) Position or locate mobile or portable oil storage containers to prevent a discharge as described in §112.1(b). Except for mobile refuelers and other non-transportation-related tank trucks, you must furnish a secondary means of containment, such as a dike or catchment basin, sufficient to contain the capacity of the largest single compartment or container with sufficient freeboard to contain precipitation.
(d) *Facility transfer operations, pumping, and facility process.* (1) Provide buried piping that is installed or replaced on or after August 16, 2002, with a protective wrapping and coating. You must also cathodically protect such buried piping installations or otherwise satisfy the corrosion protection standards for piping in part 280 of this chapter or a State program approved under part 281 of this chapter. If a section of buried line is exposed for any reason, you must carefully inspect it for deterioration. If you find corrosion damage, you must undertake additional examination and corrective action as indicated by the magnitude of

the damage.
(2) Cap or blank-flange the terminal connection at the transfer point and mark it as to origin when piping is not in service or is in standby service for an extended time.
(3) Properly design pipe supports to minimize abrasion and corrosion and allow for expansion and contraction.
(4) Regularly inspect all aboveground valves, piping, and appurtenances. During the inspection you must assess the general condition of items, such as flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces. You must also conduct integrity and leak testing of buried piping at the time of installation, modification, construction, relocation, or replacement.
(5) Warn all vehicles entering the facility to be sure that no vehicle will endanger aboveground piping or other oil transfer operations.
[67 FR 57149, July 17, 2002, as amended at 71 FR 77293, Dec. 26, 2006; 73 FR 74305, Dec. 5, 2008]

§§ 112.13-112.15 [Reserved]

Subpart D—Response Requirements

§ 112.20 Facility response plans.

(a) The owner or operator of any non-transportation-related onshore facility that, because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines shall prepare and submit a facility response plan to the Regional Administrator, according to the following provisions:
(1) For the owner or operator of a facility in operation on or before February 18, 1993 who is required to prepare and submit a response plan under 33 U.S.C. 1321(j)(5), the Oil Pollution Act of 1990 (Pub. L. 101–380, 33 U.S.C. 2701 *et seq.*) requires the submission of a response plan that satisfies the requirements of 33 U.S.C. 1321(j)(5) no later than February 18, 1993.
(i) The owner or operator of an existing facility that was in operation on or before February 18, 1993 who submitted a response plan by February 18, 1993 shall revise the response plan to satisfy the requirements of this section and resubmit the response plan or updated portions of the response plan to the Regional Administrator by February 18, 1995.
(ii) The owner or operator of an existing facility in operation on or before February 18, 1993 who failed to submit a response plan by February 18, 1993 shall prepare and submit a response plan that satisfies the requirements of this section to the Regional Administrator before August 30, 1994.
(2) The owner or operator of a facility in operation on or after August 30, 1994 that satisfies the criteria in paragraph (f)(1) of this section or that is notified by the Regional Administrator pursuant to paragraph (b) of this section shall prepare and submit a facility response plan that satisfies the requirements of this section to the Regional Administrator.
(i) For a facility that commenced operations after February 18, 1993 but prior to August 30, 1994, and is required to prepare and submit a response plan based on the criteria in paragraph (f)(1) of this section, the owner or operator shall submit the response plan or updated portions of the response plan, along with a completed version of the response plan cover sheet contained in appendix F to this part, to the Regional Administrator prior to August 30, 1994.
(ii) For a newly constructed facility that commences operation after August 30, 1994, and is required to prepare and submit a response plan based on the criteria in paragraph (f)(1) of this section, the owner or operator shall submit the response plan, along with a completed version of the response plan cover sheet contained in appendix F to this part, to the Regional Administrator prior to the start of operations (adjustments to the response plan to reflect changes that occur at the facility during the start-up phase of operations must be submitted to the Regional Administrator after an operational trial period of 60 days).
(iii) For a facility required to prepare and submit a response plan after August 30, 1994, as a result of a planned change in design, construction, operation, or maintenance that renders the facility subject to the criteria in paragraph (f)(1) of this section, the owner or operator shall submit the response plan, along with a completed version of the response plan cover sheet contained in appendix F to this part, to the Regional Administrator before the portion of the facility undergoing change commences operations (adjustments to the response plan to reflect changes that occur at the facility during the start-up phase of operations must be submitted to the Regional Administrator after an operational trial period of 60 days).
(iv) For a facility required to prepare and submit a response plan after August 30, 1994, as a result of an unplanned event or change in facility characteristics that renders the facility subject to the criteria in paragraph (f)(1) of this section, the owner or

operator shall submit the response plan, along with a completed version of the response plan cover sheet contained in appendix F to this part, to the Regional Administrator within six months of the unplanned event or change.
(3) In the event the owner or operator of a facility that is required to prepare and submit a response plan uses an alternative formula that is comparable to one contained in appendix C to this part to evaluate the criterion in paragraph (f)(1)(ii)(B) or (f)(1)(ii)(C) of this section, the owner or operator shall attach documentation to the response plan cover sheet contained in appendix F to this part that demonstrates the reliability and analytical soundness of the alternative formula.
(4) *Preparation and submission of response plans — Animal fat and vegetable oil facilities.* The owner or operator of any non-transportation-related facility that handles, stores, or transports animal fats and vegetable oils must prepare and submit a facility response plan as follows:
(i) *Facilities with approved plans.* The owner or operator of a facility with a facility response plan that has been approved under paragraph (c) of this section by July 31, 2000 need not prepare or submit a revised plan except as otherwise required by paragraphs (b), (c), or (d) of this section.
(ii) *Facilities with plans that have been submitted to the Regional Administrator.* Except for facilities with approved plans as provided in paragraph (a)(4)(i) of this section, the owner or operator of a facility that has submitted a response plan to the Regional Administrator prior to July 31, 2000 must review the plan to determine if it meets or exceeds the applicable provisions of this part. An owner or operator need not prepare or submit a new plan if the existing plan meets or exceeds the applicable provisions of this part. If the plan does not meet or exceed the applicable provisions of this part, the owner or operator must prepare and submit a new plan by September 28, 2000.
(iii) *Newly regulated facilities.* The owner or operator of a newly constructed facility that commences operation after July 31, 2000 must prepare and submit a plan to the Regional Administrator in accordance with paragraph (a)(2)(ii) of this section. The plan must meet or exceed the applicable provisions of this part. The owner or operator of an existing facility that must prepare and submit a plan after July 31, 2000 as a result of a planned or unplanned change in facility characteristics that causes the facility to become regulated under paragraph (f)(1) of this section, must prepare and submit a plan to the Regional Administrator in accordance with paragraph (a)(2)(iii) or (iv) of this section, as appropriate. The plan must meet or exceed the applicable provisions of this part.
(iv) *Facilities amending existing plans.* The owner or operator of a facility submitting an amended plan in accordance with paragraph (d) of this section after July 31, 2000, including plans that had been previously approved, must also review the plan to determine if it meets or exceeds the applicable provisions of this part. If the plan does not meet or exceed the applicable provisions of this part, the owner or operator must revise and resubmit revised portions of an amended plan to the Regional Administrator in accordance with paragraph (d) of this section, as appropriate. The plan must meet or exceed the applicable provisions of this part.
(b)(1) The Regional Administrator may at any time require the owner or operator of any non-transportation-related onshore facility to prepare and submit a facility response plan under this section after considering the factors in paragraph (f)(2) of this section. If such a determination is made, the Regional Administrator shall notify the facility owner or operator in writing and shall provide a basis for the determination. If the Regional Administrator notifies the owner or operator in writing of the requirement to prepare and submit a response plan under this section, the owner or operator of the facility shall submit the response plan to the Regional Administrator within six months of receipt of such written notification.
(2) The Regional Administrator shall review plans submitted by such facilities to determine whether the facility could, because of its location, reasonably be expected to cause significant and substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines.
(c) The Regional Administrator shall determine whether a facility could, because of its location, reasonably be expected to cause significant and substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines, based on the factors in paragraph (f)(3) of this section. If such a determination is made, the Regional Administrator shall notify the owner or operator of the facility in writing and:
(1) Promptly review the facility response plan;
(2) Require amendments to any response plan that does not meet the requirements of this section;
(3) Approve any response plan that meets the requirements of this section; and
(4) Review each response plan periodically thereafter on a schedule established by the Regional Administrator provided that the period between plan reviews does not exceed five years.
(d)(1) The owner or operator of a facility for which

a response plan is required under this part shall revise and resubmit revised portions of the response plan within 60 days of each facility change that materially may affect the response to a worst case discharge, including:
(i) A change in the facility's configuration that materially alters the information included in the response plan;
(ii) A change in the type of oil handled, stored, or transferred that materially alters the required response resources;
(iii) A material change in capabilities of the oil spill removal organization(s) that provide equipment and personnel to respond to discharges of oil described in paragraph (h)(5) of this section;
(iv) A material change in the facility's spill prevention and response equipment or emergency response procedures; and
(v) Any other changes that materially affect the implementation of the response plan.
(2) Except as provided in paragraph (d)(1) of this section, amendments to personnel and telephone number lists included in the response plan and a change in the oil spill removal organization(s) that does not result in a material change in support capabilities do not require approval by the Regional Administrator. Facility owners or operators shall provide a copy of such changes to the Regional Administrator as the revisions occur.
(3) The owner or operator of a facility that submits changes to a response plan as provided in paragraph (d)(1) or (d)(2) of this section shall provide the EPA-issued facility identification number (where one has been assigned) with the changes.
(4) The Regional Administrator shall review for approval changes to a response plan submitted pursuant to paragraph (d)(1) of this section for a facility determined pursuant to paragraph (f)(3) of this section to have the potential to cause significant and substantial harm to the environment.
(e) If the owner or operator of a facility determines pursuant to paragraph (a)(2) of this section that the facility could not, because of its location, reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines, the owner or operator shall complete and maintain at the facility the certification form contained in appendix C to this part and, in the event an alternative formula that is comparable to one contained in appendix C to this part is used to evaluate the criterion in paragraph (f)(1)(ii)(B) or (f)(1)(ii)(C) of this section, the owner or operator shall attach documentation to the certification form that demonstrates the reliability and analytical soundness of the comparable formula and shall notify the Regional Administrator in writing that an alternative formula was used.
(f)(1) A facility could, because of its location, reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines pursuant to paragraph (a)(2) of this section, if it meets any of the following criteria applied in accordance with the flowchart contained in attachment C-I to appendix C to this part:
(i) The facility transfers oil over water to or from vessels and has a total oil storage capacity greater than or equal to 42,000 gallons; or
(ii) The facility's total oil storage capacity is greater than or equal to 1 million gallons, and one of the following is true:
(A) The facility does not have secondary containment for each aboveground storage area sufficiently large to contain the capacity of the largest aboveground oil storage tank within each storage area plus sufficient freeboard to allow for precipitation;
(B) The facility is located at a distance (as calculated using the appropriate formula in appendix C to this part or a comparable formula) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments. For further description of fish and wildlife and sensitive environments, see Appendices I, II, and III of the "Guidance for Facility and Vessel Response Plans: Fish and Wildlife and Sensitive Environments" (see Appendix E to this part, section 13, for availability) and the applicable Area Contingency Plan prepared pursuant to section 311(j)(4) of the Clean Water Act;
(C) The facility is located at a distance (as calculated using the appropriate formula in appendix C to this part or a comparable formula) such that a discharge from the facility would shut down a public drinking water intake; or
(D) The facility has had a reportable oil discharge in an amount greater than or equal to 10,000 gallons within the last 5 years.
(2)(i) To determine whether a facility could, because of its location, reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines pursuant to paragraph (b) of this section, the Regional Administrator shall consider the following:
(A) Type of transfer operation;
(B) Oil storage capacity;
(C) Lack of secondary containment;
(D) Proximity to fish and wildlife and sensitive environments and other areas determined by the

Regional Administrator to possess ecological value;
(E) Proximity to drinking water intakes;
(F) Spill history; and
(G) Other site-specific characteristics and environmental factors that the Regional Administrator determines to be relevant to protecting the environment from harm by discharges of oil into or on navigable waters or adjoining shorelines.
(ii) Any person, including a member of the public or any representative from a Federal, State, or local agency who believes that a facility subject to this section could, because of its location, reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines may petition the Regional Administrator to determine whether the facility meets the criteria in paragraph (f)(2)(i) of this section. Such petition shall include a discussion of how the factors in paragraph (f)(2)(i) of this section apply to the facility in question. The RA shall consider such petitions and respond in an appropriate amount of time.
(3) To determine whether a facility could, because of its location, reasonably be expected to cause significant and substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines, the Regional Administrator may consider the factors in paragraph (f)(2) of this section as well as the following:
(i) Frequency of past discharges;
(ii) Proximity to navigable waters;
(iii) Age of oil storage tanks; and
(iv) Other facility-specific and Region-specific information, including local impacts on public health.
(g)(1) All facility response plans shall be consistent with the requirements of the National Oil and Hazardous Substance Pollution Contingency Plan (40 CFR part 300) and applicable Area Contingency Plans prepared pursuant to section 311(j)(4) of the Clean Water Act. The facility response plan should be coordinated with the local emergency response plan developed by the local emergency planning committee under section 303 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (42 U.S.C. 11001 et seq.). Upon request, the owner or operator should provide a copy of the facility response plan to the local emergency planning committee or State emergency response commission.
(2) The owner or operator shall review relevant portions of the National Oil and Hazardous Substances Pollution Contingency Plan and applicable Area Contingency Plan annually and, if necessary, revise the facility response plan to ensure consistency with these plans.
(3) The owner or operator shall review and update the facility response plan periodically to reflect changes at the facility.
(h) A response plan shall follow the format of the model facility-specific response plan included in appendix F to this part, unless you have prepared an equivalent response plan acceptable to the Regional Administrator to meet State or other Federal requirements. A response plan that does not follow the specified format in appendix F to this part shall have an emergency response action plan as specified in paragraphs (h)(1) of this section and be supplemented with a cross-reference section to identify the location of the elements listed in paragraphs (h)(2) through (h)(10) of this section. To meet the requirements of this part, a response plan shall address the following elements, as further described in appendix F to this part:
(1) *Emergency response action plan.* The response plan shall include an emergency response action plan in the format specified in paragraphs (h)(1)(i) through (viii) of this section that is maintained in the front of the response plan, or as a separate document accompanying the response plan, and that includes the following information:
(i) The identity and telephone number of a qualified individual having full authority, including contracting authority, to implement removal actions;
(ii) The identity of individuals or organizations to be contacted in the event of a discharge so that immediate communications between the qualified individual identified in paragraph (h)(1) of this section and the appropriate Federal officials and the persons providing response personnel and equipment can be ensured;
(iii) A description of information to pass to response personnel in the event of a reportable discharge;
(iv) A description of the facility's response equipment and its location;
(v) A description of response personnel capabilities, including the duties of persons at the facility during a response action and their response times and qualifications;
(vi) Plans for evacuation of the facility and a reference to community evacuation plans, as appropriate;
(vii) A description of immediate measures to secure the source of the discharge, and to provide adequate containment and drainage of discharged oil; and
(viii) A diagram of the facility.
(2) *Facility information.* The response plan shall identify and discuss the location and type of the facility, the identity and tenure of the present owner and operator, and the identity of the qualified

individual identified in paragraph (h)(1) of this section.

(3) *Information about emergency response.* The response plan shall include:

(i) The identity of private personnel and equipment necessary to remove to the maximum extent practicable a worst case discharge and other discharges of oil described in paragraph (h)(5) of this section, and to mitigate or prevent a substantial threat of a worst case discharge (To identify response resources to meet the facility response plan requirements of this section, owners or operators shall follow Appendix E to this part or, where not appropriate, shall clearly demonstrate in the response plan why use of Appendix E of this part is not appropriate at the facility and make comparable arrangements for response resources);

(ii) Evidence of contracts or other approved means for ensuring the availability of such personnel and equipment;

(iii) The identity and the telephone number of individuals or organizations to be contacted in the event of a discharge so that immediate communications between the qualified individual identified in paragraph (h)(1) of this section and the appropriate Federal official and the persons providing response personnel and equipment can be ensured;

(iv) A description of information to pass to response personnel in the event of a reportable discharge;

(v) A description of response personnel capabilities, including the duties of persons at the facility during a response action and their response times and qualifications;

(vi) A description of the facility's response equipment, the location of the equipment, and equipment testing;

(vii) Plans for evacuation of the facility and a reference to community evacuation plans, as appropriate;

(viii) A diagram of evacuation routes; and

(ix) A description of the duties of the qualified individual identified in paragraph (h)(1) of this section, that include:

(A) Activate internal alarms and hazard communication systems to notify all facility personnel;

(B) Notify all response personnel, as needed;

(C) Identify the character, exact source, amount, and extent of the release, as well as the other items needed for notification;

(D) Notify and provide necessary information to the appropriate Federal, State, and local authorities with designated response roles, including the National Response Center, State Emergency Response Commission, and Local Emergency Planning Committee;

(E) Assess the interaction of the discharged substance with water and/or other substances stored at the facility and notify response personnel at the scene of that assessment;

(F) Assess the possible hazards to human health and the environment due to the release. This assessment must consider both the direct and indirect effects of the release (i.e., the effects of any toxic, irritating, or asphyxiating gases that may be generated, or the effects of any hazardous surface water runoffs from water or chemical agents used to control fire and heat-induced explosion);

(G) Assess and implement prompt removal actions to contain and remove the substance released;

(H) Coordinate rescue and response actions as previously arranged with all response personnel;

(I) Use authority to immediately access company funding to initiate cleanup activities; and

(J) Direct cleanup activities until properly relieved of this responsibility.

(4) *Hazard evaluation.* The response plan shall discuss the facility's known or reasonably identifiable history of discharges reportable under 40 CFR part 110 for the entire life of the facility and shall identify areas within the facility where discharges could occur and what the potential effects of the discharges would be on the affected environment. To assess the range of areas potentially affected, owners or operators shall, where appropriate, consider the distance calculated in paragraph (f)(1)(ii) of this section to determine whether a facility could, because of its location, reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines.

(5) *Response planning levels.* The response plan shall include discussion of specific planning scenarios for:

(i) A worst case discharge, as calculated using the appropriate worksheet in appendix D to this part. In cases where the Regional Administrator determines that the worst case discharge volume calculated by the facility is not appropriate, the Regional Administrator may specify the worst case discharge amount to be used for response planning at the facility. For complexes, the worst case planning quantity shall be the larger of the amounts calculated for each component of the facility;

(ii) A discharge of 2,100 gallons or less, provided that this amount is less than the worst case discharge amount. For complexes, this planning quantity shall be the larger of the amounts calculated for each component of the facility; and

(iii) A discharge greater than 2,100 gallons and less than or equal to 36,000 gallons or 10 percent of the

capacity of the largest tank at the facility, whichever is less, provided that this amount is less than the worst case discharge amount. For complexes, this planning quantity shall be the larger of the amounts calculated for each component of the facility.
(6) *Discharge detection systems.* The response plan shall describe the procedures and equipment used to detect discharges.
(7) *Plan implementation.* The response plan shall describe:
(i) Response actions to be carried out by facility personnel or contracted personnel under the response plan to ensure the safety of the facility and to mitigate or prevent discharges described in paragraph (h)(5) of this section or the substantial threat of such discharges;
(ii) A description of the equipment to be used for each scenario;
(iii) Plans to dispose of contaminated cleanup materials; and
(iv) Measures to provide adequate containment and drainage of discharged oil.
(8) *Self-inspection, drills/exercises, and response training.* The response plan shall include:
(i) A checklist and record of inspections for tanks, secondary containment, and response equipment;
(ii) A description of the drill/exercise program to be carried out under the response plan as described in §112.21;
(iii) A description of the training program to be carried out under the response plan as described in §112.21; and
(iv) Logs of discharge prevention meetings, training sessions, and drills/exercises. These logs may be maintained as an annex to the response plan.
(9) *Diagrams.* The response plan shall include site plan and drainage plan diagrams.
(10) *Security systems.* The response plan shall include a description of facility security systems.
(11) *Response plan cover sheet.* The response plan shall include a completed response plan cover sheet provided in section 2.0 of appendix F to this part.
(i)(1) In the event the owner or operator of a facility does not agree with the Regional Administrator's determination that the facility could, because of its location, reasonably be expected to cause substantial harm or significant and substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines, or that amendments to the facility response plan are necessary prior to approval, such as changes to the worst case discharge planning volume, the owner or operator may submit a request for reconsideration to the Regional Administrator and provide additional information and data in writing to support the request. The request and accompanying information must be submitted to the Regional Administrator within 60 days of receipt of notice of the Regional Administrator's original decision. The Regional Administrator shall consider the request and render a decision as rapidly as practicable.
(2) In the event the owner or operator of a facility believes a change in the facility's classification status is warranted because of an unplanned event or change in the facility's characteristics (i.e., substantial harm or significant and substantial harm), the owner or operator may submit a request for reconsideration to the Regional Administrator and provide additional information and data in writing to support the request. The Regional Administrator shall consider the request and render a decision as rapidly as practicable.
(3) After a request for reconsideration under paragraph (i)(1) or (i)(2) of this section has been denied by the Regional Administrator, an owner or operator may appeal a determination made by the Regional Administrator. The appeal shall be made to the EPA Administrator and shall be made in writing within 60 days of receipt of the decision from the Regional Administrator that the request for reconsideration was denied. A complete copy of the appeal must be sent to the Regional Administrator at the time the appeal is made. The appeal shall contain a clear and concise statement of the issues and points of fact in the case. It also may contain additional information from the owner or operator, or from any other person. The EPA Administrator may request additional information from the owner or operator, or from any other person. The EPA Administrator shall render a decision as rapidly as practicable and shall notify the owner or operator of the decision.
[59 FR 34098, July 1, 1994, as amended at 65 FR 40798, June 30, 2000; 66 FR 34560, June 29, 2001; 67 FR 47151, July 17, 2002]

§ 112.21 Facility response training and drills/exercises.

(a) The owner or operator of any facility required to prepare a facility response plan under §112.20 shall develop and implement a facility response training program and a drill/exercise program that satisfy the requirements of this section. The owner or operator shall describe the programs in the response plan as provided in §112.20(h)(8).
(b) The facility owner or operator shall develop a facility response training program to train those personnel involved in oil spill response activities. It is recommended that the training program be based on

the USCG's Training Elements for Oil Spill Response, as applicable to facility operations. An alternative program can also be acceptable subject to approval by the Regional Administrator.

(1) The owner or operator shall be responsible for the proper instruction of facility personnel in the procedures to respond to discharges of oil and in applicable oil spill response laws, rules, and regulations.

(2) Training shall be functional in nature according to job tasks for both supervisory and non-supervisory operational personnel.

(3) Trainers shall develop specific lesson plans on subject areas relevant to facility personnel involved in oil spill response and cleanup.

(c) The facility owner or operator shall develop a program of facility response drills/exercises, including evaluation procedures. A program that follows the National Preparedness for Response Exercise Program (PREP) (see appendix E to this part, section 13, for availability) will be deemed satisfactory for purposes of this section. An alternative program can also be acceptable subject to approval by the Regional Administrator.

[59 FR 34101, July 1, 1994, as amended at 65 FR 40798, June 30, 2000]

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